# ANNUAL REPORT

ON THE WORK OF THE

# Ministry of Public Health for the Year 1943



Government Press, Cairo.

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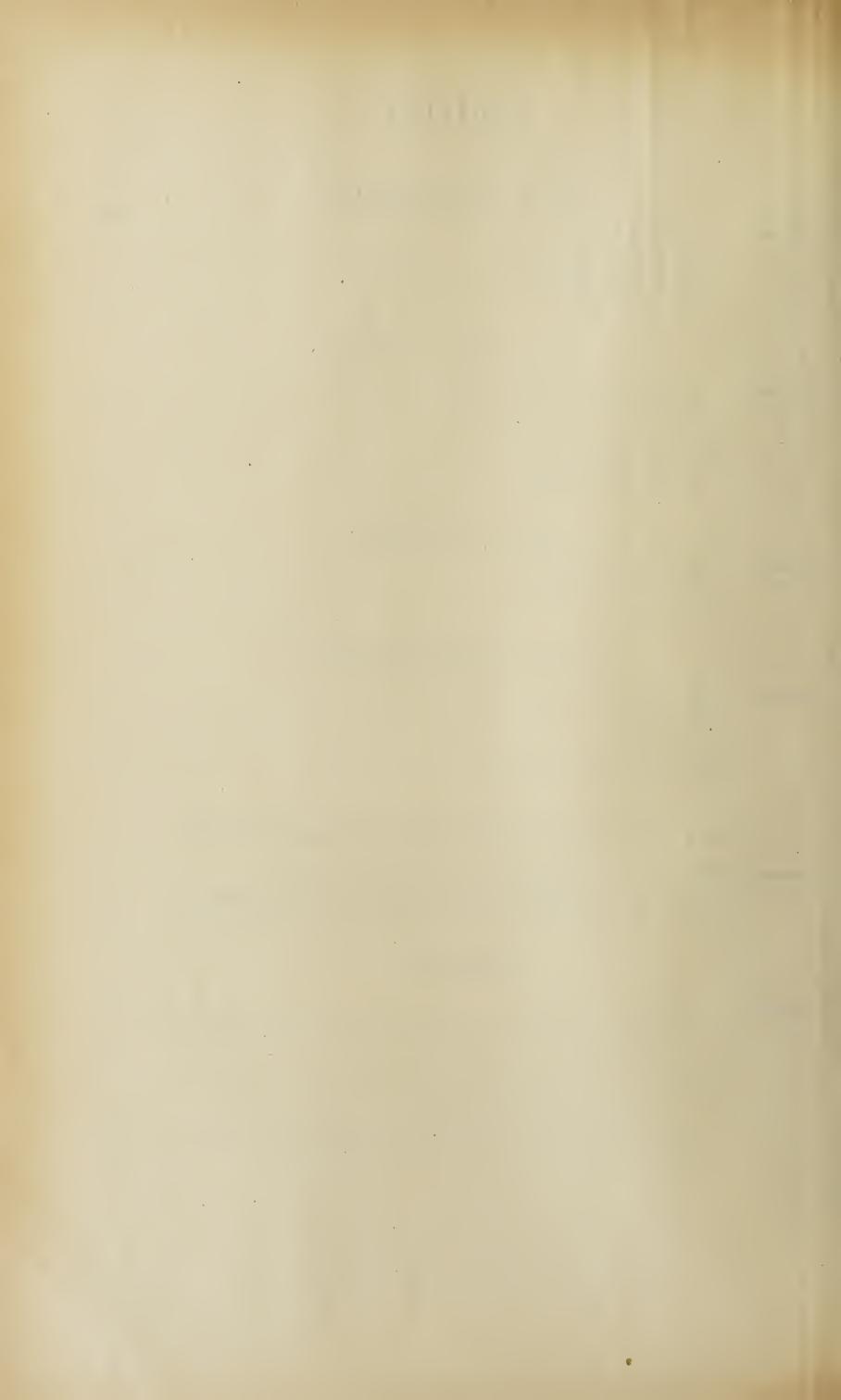
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#### MINISTRY OF PUBLIC HEALTH

# ANNUAL REPORT FOR THE YEAR 1943

# Part I.—PUBLIC HEALTH

# Chapter I.—VITAL STATISTICS

#### A.—Population.

The population of Egypt as estimated in mid year 1943 was 17,423,300 inhabitants as against 17,226,700 inhabitants in 1942

#### B.—Births.

The number of births registered throughout Egypt during 1943 was 689,771 or a birth rate of 39.6 per thousand of population, as compared with 38.2 per thousand in 1942. Suez Governorate recorded the highest birth-rate of 84.9 per thousand population, whereas Aswan Province recorded the lowest birth-rate of 20.3 per thousand.

#### C.—Deaths.

A total of 492,644 deaths were registered throughout Egypt during the year under review, giving a death-rate of 28.3 per thousand of population as compared with 28.7 per thousand in 1942. The highest death-rate of 73.5 per thousand of population was recorded in Suez Governorate, and the lowest was recorded in Southern Desert Governorate, being 16.3 per thousand.

Table No. 1, gives the ratios of births, deaths and infantile mortality in Egypt (1934–1943).

# D.—Diseases Causing Deaths.

Table No. 4 gives the principal diseases causing deaths in localities having a health bureau and the death-rate of each disease as compared to total deaths. According to this table, diarrhoea and enteritis figure foremost on the list with diseases of the respiratory system coming next.

#### E.—Age and Sex Distribution of Deaths.

Table No. 5 gives the number and rate of deaths of the different age groups in localities having a health bureau. It shows that almost half the deaths occur during the first three years of life.

# F.—Infantile Mortality.

A total of 110,520 infantile deaths were recorded in Egypt, or a rate of 160 deaths per thousand births. In localities having a health bureau, 58,259 infantile deaths were registered or 21.5 per cent of births. It is still observed that diarrhoea and enteritis are mainly responsible for these deaths. Table No. 6 gives the infantile deaths in localities having a health bureau distributed according to age.

Table No. 1.—Showing Rates of Births, Deaths and Infantile Mortality in Egypt from 1934 to 1943

Year	Birth per 1000 j		Death per 1000		Infantile per 100	mortality 0 births
•	Egypt	Urban Districts	Egypt	Urban Districts	Egypt	Urban Districts
1934	40.3	44 · 4	26.6	29.5	166.4	209.9
1935	39.4	<b>42</b> ·5	<b>2</b> 5·1	27 · 7	166.6	202.5
1936	41.8		<b>2</b> 7·3		164	
1937	43.5	<b>46</b> ·1	27 · 2	29.8	165	206
1938	43.4	45 · 7	26.4	29.5	163	206
1939	43.2	46.8	26.0	29.3	161	200
1940	41.6	45.9	26.5	29.5	162	199
1941	40.8	44.2	25.9	31.0	150	200
1942	38.2	44.4	28.7	36.2	168	228
1943	39.6	49.8	<b>2</b> 3·3	37.2	160	<b>22</b> 5

Table No. 2.—Showing Births, Deaths and Infantile Mortality in Egypt during 1943

2177 -

	Estimated	Birt	hs	Deatl	ns	Infantile A	fortality
and the	Population mid 1943	Number	Rate	Number	Rate	Number	Rate
Governorates:—  Urban (Cities only)* Urban and Rural  Lower Egypt:—	<b>2</b> ,443,900 <b>2</b> ,594,800	123,974 129,757	50·7 50·0	8,443 <b>9</b> 2,060	36·2 35·5	29,413 30,357	237 234
Urhan (Bandars only)* Urban and Rural  Upper Egypt:—	988,600 <b>7</b> ,778,300	4°,536 313,278	49·1 40·3	34,853 217,268	3~·2 27·9	8,9 <b>9</b> 8 <b>43,</b> 9 <b>2</b> 8	185 140
Urban (Bandars only)* Urban and Rural  Egypt:—	922,600 7,010,200	44,447 246,736	48·2 35·0	38,678 183,316	41·9 26·0	10,372 36,235	233 147
Urban (Cities and Bandars)	4,355,300	216,957	49.8	161,974	37.2	48,783	225
Total (all over Egypt.)	17,423,300	689,771	39.6	492,644	28.3	110,520	160

<sup>\*</sup> Urban comprises all towns having a Health Bureau provided there is a pure drinking water i-stallation and a municipal or local council.

TABLE No. 3.—Showing the Highest and Lowest Birth and Death Rates during 1943 in Governorates, Provinces and Towns having a Health Bureau

	Govte., Prov. or Town having a Health Bureau	Rate per Thousand
Births		
Governorate or Province with highest birth-rate  ,, lowest ,, lowest ,, lowest birth-rate ,, ,, lowest	Suez Governorate Aswan Province Suez Daraw	84·9 20·3 89·2 10·6
DEATHS		t.
Governorate or Province with highest death-rate  Town or Bandar (chief town) with highest death-rate  , lowest ,  lowest ,	Suez Governorate Western De ert Busalia Kibli Port Fouad	73·5 16·3 130·8 7·3
INFANTILE MORTALITY		Rate per
Governorate or Province with highest infantile mortality  Town or Bandar (chief town) with highest infantile mortality  , , , , , , , , , , , , , , , , , , ,	Alexandria Qena Province Ediu Sidi Salem	250 95 482 33

The birth-rate for all the population of Egypt was 39.6 per thousand.

Table No. 4.—Showing Diseases causing Deaths in all Localities having a Health Bureau during 1943

Discase	Total Number of Deaths	Death-rate per 1000 of Total Deaths
Notifiable infectious and parasitic diseases exclusive of thos marked * hereunder Pulmonary tiberculosis* Other tuberculous diseases Syphilis Malaria* Dysentery Pneumonia (acute, chronic and non-chronic, including broncho-pneumonia and capillary bronchitis) Bronchitis Other respiratory system diseases Heart diseases Other diseases of the circulatory system Diseases of urinary and genital system (other than Venereal) Diseases of puerperium and delivery (other than puerperal septicemia) Diseases of diarrhosa and enteritis Senility Accidental deaths including suicides Other causes  Total Deaths	9,355 3,5 2 575 380 2,361 659 8,139† 15,986 2,907 4,678 1,513 8,330 779 72,028 23,623 6,599	45.6 17.1 2.8 1.9 11.5 3.2 39.7 77.9 14.2 2.8 7.4 40.6 3.8 350.9 115.1 32.2 213.5

Table No. 5.—Showing the Age and Sex Distribution of Deaths in Localities having a Health Bureau during 1943

											Number	or Deatins	
										Male	Female	Total	Percentage to Total Deaths
Less than one	year		•••	•••	•••	•••	•••	•••	•••	30,773	27,486	<b>5</b> 8 <b>,2</b> 5 <b>9</b>	28.4
1- 2 years	•••	•••	•••	•••	•••	• • •	•••	•••	•••	14,250	14,183	28,433	13.9
2-3 ,,	•••	•••	•••	•••	• • •	•••	•••	•••	•••	7,375	7,629	15,004	7•3
3-4 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	3,317	3,024	6,341	. 3.1
4-5 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	1,659	1,513	3,172	1.5
5-10 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	3,297	2,847	6,144	3.0
10–15 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	2,170	1,472	3,642	1.8
15-20 ,,	•••	•••	•••	٠	•••	•••	•••	•••	•••	2,043	1,497	3,540	1.7
20–25 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	2,760	1,532	4,292	2.1
<b>2</b> 5–30 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	3,057	1,961	5,018	2.4
30-35 ,,		•••	•••	•••	•••	•••	•••	•••	•••	3,021	2,049	5,070	2.5
35-40 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	3,379	2,048	5,427	2.6
40-45 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	3,230	1,978	5,208	2.5
45-50 ,,	•••	•••	•••	•••	•••	•••	•••	•••	• • •	2,786	1,447	4,233	2.1
50-55 ,,	• • •	•••	•••	•••	•••	•••	•••	•••	•••	3,597	<b>2</b> ,161	5,758	2.8
55-60 ,,	• • •	•••	•••	•••	•••	•••	•••	• • •	• • •	2,695	1,134	3,229	1.6
60–65 ,,	•••	• • •	•••	•••	•••	•••	•••	•••	•••	3,783	2,438	6,221	3.0
65-70 ,,	•••	•••	•••	•••	•••		•••	•••	•••	2,827	1,790	4,617	2.2
70-75 ,,		•••	•••	•••	• • •	•••	•••	•••	•••	4,415	3,635	8,050	3.9
<b>75–</b> 80 ,,	•••	•••	•••	•••	•3	•••	•••	•••	• • •	1,964	1,566	3,530	1.7
80–85 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	3,434	4,248	7,682	3.7
85-90 ,,	•••	•••	• • •	•••	•••	•••	•••	•••	•••	1,043	1,190	2,233	1.1
90-95 ,,	•••	•••	•••	•••	•••	•••	•••	•••	•••	2,551	3,456	6,007	2.9
95 years and u	ıpwar	rds	•••	•••	•••	•••	•••	•••		1,476	2,556	4,032	2.0
Unknown	***	•••		•••	• • •			•••	a + 40	88	16	104	0.1
						To	TAL	•••	•••	101,390	94,856	205,246	

Table No. 6.—Showing the Age and Sex Distribution of Infantile Mortality in Localities having a Health Bureau during 1943

		A	ge					Male	Female	Total	Death-rate per 100 Births	Death-rate per 100 Death
	month months		•••	• • •	•••	• • • •	• • •	5,782 2,244 2,545 10,571	4,680 1,977 2,182 8,839	10,462 4,221 4,727 19,410	3·9 1·6 1·7	5·1 2·1 2·3 9·5
3- 4 4- 5 5- 6 3- 6	,, ,,	€ v •••	•••	6 · ·	•••	• • •	• • •	2,678 2,7(3 2,367 7,808	2,464 2,563 2,190 7,217	5,142 5,326 4,667 15,025	1·9 2·0 1·7 5·5	2·5 2·6 2·2 7·3
6- 7 7- 8 8- 9 6- 9	;; ;;	•••	• • •	•••	•••	•••	•••	2,916 2,122 2,710 7,748	2,674 2,050 2,421 7,145	5,590 4,172 5,131 14,893	2·1 1·5 1·9	$ \begin{array}{r} 2 \cdot 7 \\ 2 \cdot 0 \\ 2 \cdot 5 \\ \hline 7 \cdot 3 \end{array} $
9-10 10-11 11-12 9-12	;; ;; ;;	•••	•••	•••	•••	•••	• • •	1,880 1,762 1,004 4,646	1,727 1,598 960 4,285	3,607 3,360 1,964 8,931	$ \begin{array}{c c}  & 1 \cdot 3 \\  & 1 \cdot 2 \\  & 0 \cdot 7 \\ \hline  & 3 \cdot 3 \end{array} $	1·8 1·6 1·0
	,,	GRAND	<b>T</b> o		•••		•••	39,773	27,486	58,259	21.5	28.4

Table No. 7.—Showing Disease Distribution of Infantile Mortality in Localities having a Health Bureau during 1943

		D	isoase	,							Number of Deaths	Rate per 1000 to Total Births	Rate per 1000 to Total Infantile Mortality
Measles	•••	•••	• • •	•••	•••	• • •	•••	* 9 *	• • •	• • •	99 43	0·4 0·2	1.7
Whooping Cough Diphtheria	• • •	4 + 7	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •	81	0.3	1.4
Tuberculous Diseases		•••	• • •	• • •	• • •	•••	• • •	• • •	• • •		19	0.1	0.3
Syphilis	• • •	• • •	• • •			• • •	• • •		• • •		234	0.9	4.0
Rickets and Osteoma			• • •	•••	• • •	• • •	• • •	• • •	• • •	,	183	0.7	3.1
Convulsions	• • •	• • •	• • •			• • •					200	0.7	3.4
Bronchitis	• • •			• • •	• • •		• • •				3,522	13.0	60.5
Broncho-Pneumonia	• • •	• • •	• • •	• • •	• • •						1,036	3.8	17.8
Pneumonia	• • •	• • •									301	1.1	5.2
Diarrhœa and Enteri											<b>33,2</b> 30	$122 \cdot 7$	570.4
Congenital Defects of		form	atio	$\mathbf{n}$							78	0.3	1.3
Congenital Debility											16,895	62.4	290.0
Premature Birth				• • •			* * *				195	0.7	3.3
Consequences of Deli	very	• • •						• •	1 0 b		80	0.3	1.4
Infanticide	• • •					* * *	• . •				126	0.5	2.2
Accidents	• • •									•••	96	0.4	1.6
Other Causes											1,841	6.8	31.6
							To	TAL			58,259	215·1	

TABLE NO. 8.—BIRTHS AND DEATHS RETURN FOR GOVERNORATES AND CHIEF TOWNS OF PROVINCES FOR 1943

Population mid year Egyptians Foreigners Total per 1000 Egyptians Foreigners 1943	Total Per 1000 Population  24,313 24,313 3,977 3,186 21.4 3,972 3,972 80.2 2194 31.7	Under 1-9 years one year 18,023 13,377 457 1,058 853 276 457 1,203 938 342 311 342	Under one year  Births  23.7 25.0 21.6 38.2 18.1 18.1 28.2 27.3 20.5 20.5 30.9	1-0 years Deaths 24.7 29.8 23.9 26.8 22.0 23.6
1943   Egyptians   Foreigners   Total   Population   Po	54,065 37.7 24,313 32.7 1,914 47.4 3,186 21.6 977 21.4 3,972 80.2 1,184 36.4 2,194 31.7		Death  Death  33. 34. 38. 30. 30. 30. 30. 30.	24.7 29.8 23.9 26.8 22.0 23.6
"max"     1,433,500     75,415     733     76,148     53,11     53,320     745       "max"     742,900     31,759     1,217     32,976     44.4     23,1,2     1,171       40,400     2,579     135     2,714     67.2     1,812     102       129,700     5,714     118     5,832     45.0     3,036     150       129,700     1,833      1,833     40.1     977       45,500     4,381     32     4,413     89.2     3,881     88       5,300     3,787      1,514     46.6     1,184        6,300     3,787      3,787      3,787        6,300     3,787      3,787      3,395     48.9     2,322     8       93,500     1,69     1     1,69     1     46.6     44.7     3,440     1       103,800     4,634     2     4,636     48.1     2,180     8       105,800     2,731     2     2,734     42.9     2,361        105,800     6,6400     3,191     3     2,734     42.9     2,361        106,400     2,731     3 <t< th=""><th>54,065 37.7 24,313 32.7 1,914 47.4 3,186 24.6 977 21.4 3,972 80.2 1,184 36.4 2,194 31.7</th><th>,023 ,259 ,259 ,058 ,203 ,203</th><th></th><th>24.7 25.9 25.9 26.8 27.0 28.0 28.0</th></t<>	54,065 37.7 24,313 32.7 1,914 47.4 3,186 24.6 977 21.4 3,972 80.2 1,184 36.4 2,194 31.7	,023 ,259 ,259 ,058 ,203 ,203		24.7 25.9 25.9 26.8 27.0 28.0 28.0
(war)       1,433,500       75,415       733       76,148       53°1       53,320       745         (war)       742,900       31,759       1,217       32,976       44·4       23,1.2       1,171         (war)       40,400       2,579       135       2,714       67·2       1,812       102         (war)       129,700       5,714       118       5,832       45·0       3,036       150         (war)       49,500       4,381       32       4,413       89·2       3,84       88         (war)       49,500       4,381       32       4,413       89·2       3,84       88         (war)       49,500       4,381       3       4,413       89·2       3,84       88         (war)       32,787       7       3,787       7       3,787       54·6       2,192       8         (war)       3,500       1,699       1       1,691       4,634	54,065 37·7 24,313 32·7 1,914 47·4 3,186 22·6 977 21·4 3,972 80·2 1,184 36·4 2,194 31·7	,023 ,259 ,259 ,058 ,203 ,203		24.7 24.7 25.0 25.0 28.0 28.0 28.0 28.0
(wat)     1,433,500     75,415     733     76,148     53°1     53,320     745       (wat)     742,900     31,759     1,217     32,976     44.4     23,1,2     1,171       40,400     2,579     135     2,714     67.2     1,812     102       129,700     5,714     118     5,832     45.0     3,036     150       45,700     1,833     -     1,833     40.1     377     -       -     49,500     4,381     32     4,413     89.2     3,884     88       -     2,300     4,381     32     4,413     89.2     3,884     88       -     3,787     -     3,787     54.6     2,192     2       -     3,787     -     3,787     54.6     2,192     2       -     3,000     1,69     1     1,691     48.3     1,395     -       -     3,000     4,634     2     4,636     44.7     3,440     11       -     66,400     3,191     2     3,193     48.1     2,180     8       -     66,400     3,191     2     3,134     42.9     2,361     -       -     66,400     2,731     3	54,065 37.7 24,313 32.7 1,914 47.4 3,186 21.6 977 21.4 3,972 80.2 1,184 36.4 2,194 31.7	,023 ,259 ,259 ,058 ,203 ,203		24.7 25.90.8 25.90.8 28.00.9 28.00.9 28.00.9
wm)     742,900     31,759     1,217     32,976     44.4     23,1.2     1,171       wm)     129,700     2,579     135     2,714     67.2     1,812     102       129,700     5,714     118     5,832     45.0     3,036     150       45,700     1,833     —     1,833     40.1     977     —       49,500     4,381     32     4,413     89.2     3,884     88       5,300     1,514     —     1,514     46.6     1,184     —       6,300     3,787     —     3,787     —     3,192     2       8,300     1,691     1,691     48.3     1,395     9       9,500     1,691     1,691     44.7     3,440     11       103,800     4,634     2,4636     44.7     3,440     11       103,800     4,634     2,4636     44.7     3,440     11       103,800     2,731     2,734     42.9     2,361     —       91,800     2,731     3,191     2,734     42.9     2,361     —       91,800     2,731     3,2,734     42.9     2,361     —	24,313 32 1,914 47 3,186 24 3,977 24 3,972 80 1,184 36 2,194 31 2,330 350	,259 ,058 ,058 ,203 311		88 9 8 9 8 8 8 8 8 8 9 8 9 9 9 9 9 9 9
wm)     40,400     2,579     135     2,714     67·2     1,812     102       129,700     5,714     118     5,832     45·0     3,036     150       45,700     1,833     1,833     40·1     977     -       45,700     4,381     32     4,413     89·2     3,884     -       65,300     1,514     -     1,514     46·6     1,184     -       77,300     3,787     -     3,787     -     3,787     -       77,300     3,36     7     3,393     43·9     2,322       8     35,000     1,69     1,691     48·3     1,395       9     35,000     4,634     2     4,636     44·7     3,440       66,400     3,191     2     3,193     48·1     2,180     8       8     9     8     3,193     48·1     2,180     8       9     8     9     3,191     3     3,734     42·9     2,361       9     9     8     9     3,734     42·9     2,731     1	1,914 47 3,186 21 3,972 80 3,972 80 1,184 36 2,194 31 2,330 36	,058 276 ,203 311	3. 1. 1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	28.50 28.50 28.50 28.50 39.50 39.50
	3, 186 24 3, 977 24 3, 972 80 1, 184 36 2, 194 31 2, 330 350	,058 ,203 ,311	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .	28.9 28.9 28.9 28.9
45,700       1,833       —       1,833       40·1       977       —         49,500       4,381       32       4,413       89·2       3,841       88         —       32,500       1,514       —       1,514       46·6       1,184       —         6,300       3,787       —       3,787       —       3,787       —       2,192       8         7,300       3,787       —       1,691       48·3       1,395       —       1         8       3,,000       1,691       1       48·3       1,395       —       1         9,800       4,634       2       4,636       44·7       3,440       11         66,400       3,191       2       3,193       48·1       2,180       8         9,800       2,734       42·9       2,361       —         9,800       606       9.734       42·9       2.361       —	3,972 80 3,972 80 1,184 36 2,194 31 2,330 350	,203 ,203 311		28.9 28.9
	3,972 80 1,184 36 2,194 31 2,330 350	311		28.9
	1,184 36 2,194 31 2,330 35		.9 26. .9	28.9
32,500       1,514       46.6       1,184       —         65,300       3,787       —       3,787       54.6       2,192       2         77,300       3,3 6       7       3,393       43.9       2,322       8         50       1,69 1       1,69 1       1,69 1       1,395       —         103,800       4,634       2       4,636       44.7       3,440       11         66,400       3,191       2       3,193       48:1       2,180       8         63,700       2,731       3       2,734       42.9       2,361       —         91,800       606       27:31       3       2,734       42.9       2,361       —	1,184 36 2 194 31 2 330 36		.5 .9 .30.	28.9
32,500       1,514       46.6       1,184       —         6.,300       3,787       —       3,787       54.6       2,192       2         77,300       3,3 6       7       3,393       43.9       2,322       8         77,300       1,691       1       1,691       48.3       1,395       —         8       3.,000       4,634       2       4,636       44.7       3,440       11         66,400       3,191       2       3,193       48.1       2,180       8         63,700       2,731       3       2,734       42.9       2,361       —         91,800       606       2,734       42.9       2,361       —	1,184 36 2,194 31 2,330 35		.5 <b>2</b> 6.	28.9
6.,300       3,787       —       3,787       54.6       2,192       2         77,300       3,36       7       3,393       43.9       2,322       8         52,000       1,69 )       1       1,69         48.3       1,395       —         103,800       4,634       2       4,636       44.7       3,440       11         66,400       3,191       2       3,193       48.1       2,180       8         63,700       2,731       3       2,734       42.9       2,361       —         91,800       606       2,734       42.9       2,361       —	2 194 31 2 330 35		.08 - 6.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 330 36		)	23.1
om       3.,000       1,69 \ 4,634       1       1,691 $48 \cdot 3$ 1,395       —         103,800       4,634       2       4,636 $44 \cdot 7$ 3,440       11         66,400       3,191       2       3,193 $48 \cdot 1$ 2,180       8         -       66,400       3,191       2       3,193 $48 \cdot 1$ 2,180       8         -       66,400       2,731       3       2,734 $42 \cdot 9$ 2,361       —         9,800       606       2,731       3       2,734 $42 \cdot 9$ 2,361       —	1,000		.8	27.1
103,800     4,634     2     4,636     44.7     3,440     11       66,400     3,191     2     3,193     48.1     2,180     8       -        8      8       -        8      8       -        8      8       -        8       8       -               91,800	1,395		0.00	0.02 0.03 0.03
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3,401 53		776	0.07
63,700 2,731 3 2,734 42.9 2,361 — 606 2.73 722 1	2,130		0	0
		-		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			(	i,
77. 8. 77. 909	2,361 37.1	582 750	2.12	00.77
	,		777	7 0
1 2,3 1 47.8 1,839 3 1 48,800 2,330 1 2,3 1 47.8 1,839 3	1,842		. 177 9.	7.07
66,300 3,028 - 3,028 45.7 2,33	2.3 4 35			25.3
64,200 3,855 105 3,969 61.7 2,677 31	1 2,708 42		.9 33.	27.4
	2,2.0 41		.1 26.	29.0
37,000 1,826 — 1,826 49.4 1,426 —	38	447   371	.5 31.	26.0
g 35,200 1,760 — 1,760 50.0 1,314 —	60		.8	35.6
TOTAL 3.217.600 158,478 2,359 160,837 50.0 113,851 2,326 1	1.92	37,194 39,687	23.1	56.4

1943
EGYPT,
FOR
RETURN
DEATHS
AND
9.—Births
No.
TABLE

			Births	82 C			Deaths	ths		Infantile	Infantile Mortality
Governorates and Provinces	Estimated Population mid 1943	Egyptians	Foreigners	Total	Rate per 1000 Population	Egyptians	Foreigners	Total	Rate per 1000 Population	Total	Rate per 100 <b>0</b> Population
Governorates:—											
Cairo		75,4.5	733	76,148	0	53,320		54,(65	37.7	18,023	237
	742,900	3,470	135	32,9 6 3,605	44.4	23,142	1.171	24,313	32.7	8, 25g	188
Port Said (including suburbs)		6,:86	121	6,207	44.9	3,238	155	3,393	2.1.6	1,132	182
		4, 24	35	4,756	84.9	4,030	88	4, 18	73.5	1,51	263 151
		974	က	977	50.1	TCS		531	27.2	154	158
		1,342	- 6	1,342	28.1	1,144		1,144 934	16.2 16.3	215 213	232 13 <b>2</b>
Red Sea District			1	300		174	7	174	16.6	9	187
TOTAL	2,594	157,304	2,253	129,121	20.0	89,789	2,261	92, 669	10	30,551	757
Lower Egypt Provinces:—	001 121 1	11 469	G	707 - 7	о. 20.	371 96	1	96 189	1- 66	15	100
		55.836	, o.	55,825	41.8	41.236	- O	\	30.9	- 67 - 67	148
	2,18,000	85,680	· ∞	85,688	39.7	60,753	25	<u></u>	28.2	11, (3	137
Menoufia		50,653	C7 F	50,660	40.6	37,971	10 Z	10,96	\$ 000 ° 00 ° 00 ° 00 ° 00 ° 00 ° 00 ° 0	သ် <del>၂</del> က ်	<u>199</u>
Sharkia	1,218,00	49,837	 ⊣ ਨਹ	49.840	40.0	31.409	H 60	31	3 co.	6,2%	126
Total	500	200000000000000000000000000000000000000	98	313,278	60	217,200	53	21,268	27.9	. 55 . 55 . 55 . 55	CFE
Upper Egypt Provinces:	. A	7		1		070	F	6	- 1	000	2
		6,456		6,456 47 856	20.02 20.02	33 789	<b>-</b>	33,789	9.5.6	7, (93	148
Beni Suef	î	22,174	н —	C	35.0	13,997	ಣ	14,000	22.7	3,070	138
	648,500	25,041	1	25,(4)	40.1	18,131	, ,	18,152	27.9	4,926	189
	1,2-8,700	41,3 8 34 (38)	107	41,319	33.1 44.5	27,500	136	27,951	8 F. 15	4 m.	172
	~	38,097	7	38,104	37.6	25,935	0	25,944	25.6	6,203	165
Qena	1,114,600	30,627	က	30,630	27.5	24,3 5	c1	24, 77	21.9	2,914	95
TOTAL	7,050,200	246,613	123	246,736	35.0	183, 163	153	183,346	0.92	36.235	147
GRAND TOTAL	17,423,300	681,369	2,403	689,771	39.6	490,171	2,473	492,644	28.3	110,520	160

# Chapter II.—INFECTIOUS DISEASES

Table No. 14 is a statement of the more important infectious diseases recorded during 1942 and 1943, distributed according to governorates and provinces. Table No. 15 gives the case-mortality-rates during the last three years.

#### Typhus.

Table No. 10 shows the typhus cases and deaths recorded during the last five years together with their ratios to population.

TABLE No. 10

Year	Number of Cases	Rate per 100,000 Population	Number of Deaths	Rate per 100,000 of Population	Case-Mortality Rate per cent
1939	4,296	26	788	4.8	18:3
1940	4,416	26	863	5.1	19:5
1941	9,414	56	1,751	10.4	18•6
1942	2 <b>2,0</b> 54	128	4,411	25.8	20.0
1943	40,188	230	8,252	<b>47</b> ·4	<b>2</b> 0·5

It will be observed from this table that the case rate per bundred thousand population is almost twice the 1942 rate and four times the 1941 rate. The increase is mainly attributed to the arrival into Egypt of large numbers of immigrants which was occasioned by the present war.

Table No. 16 gives the four weekly distribution of typhus cases during 1943 as compared with corresponding periods in previous years as far back as 1935. Table No. 17 gives the number of typhus cases and deaths, their ratios to population and the case-mortality-rate in Egypt during the years 1905 — 1943. It will be observed from this table that the prevalence of the disease and the case-mortali y-rates were less during the present war than during World War I, with the exception of the year under review when 40, 188 cases were recorded which represent the highest number on record since 1905.

#### Plague.

The total number of cases of plague reported during the year was 163. The following table No. 11 shows the incidence of Plague during the last four years:—

Table No. 11

		Bubonic		S	epticaem	ic		Total						
Year	Cases	Deaths	Ratio	Cases	Deaths	Ratio	Cases	Deaths	Ratio	C.	R.	D.	R.	CMR
				1										%
1940	395	146	36.9%	92	92	100 %	4	4	100 %	491	2-9	242	1.4	49.2
1941	14	6	42.9%		det elgents was	-	tong distalog dip			14	.0.	6	.03	42.9
1942	7	3	42.9%	3	3	100 %	4	4	100 %	15	.09	10	.06	66.5
1943	149	95	63 · 7%	14	14	100 %				163	.93	109	.6_	66.8

#### Distribution of Cases.

Plague was this year confined to Suez and Port Said cities. It was severer in the former where 156 cases were recorded: 25 cases in November and 131 cases in December. The other seven cases occurred in Port Said: 3 in July, 2 in August, 1 in October and one in December.

#### Anti-Plague-Vaccination.

No wonder the vaccination against plague was mainly directed to the two afflicted cities and to Suez in particular where a total of 46,247 persons were vaccinated. Some 4,738 persons were vaccinated in Port Said. Other vaccinations were carried out as a precautionary measure in certain localities in Sharkia. Beni Suef, Assiut and Gerga Provinces.

#### Deratization. .

The stationary posts set up in 1941 for the deratization of rivercraft were still in operation preventing the escape of rats from the ports to the interior or vice versa. As mentioned before, these exist at the following localities:—

- (1) Mouth of Ismailia Canal to Shubra.
- (2) Mouths of Tewfiki, Menoufi and Beheri Rayyahs in the Delta Barrage.
- (3) Mouths of Ibrahimia, Yusfi and Walidi canals near Assiut.

Other stations were set up in 1942 at Deirut town, Athar el Nabi Bank, Ismailia Canallock and Mahmoudia. During 1943, some 39,822 rivercraft were supplied with traps which caught 105,998 live and 5,262 dead rats. These posts together with the almost negligible amount of imported goods transported to the interior by water ways had a direct bearing on the disappearance of plague from the interior of the country.

# Thyphoid and Para-Typhoid.

4,430 cases with 790 deaths were notified during the year or a case-rate of 25.4 and a death-rate of 4.5 per 100,000 of population, and a case-mortality-rate of 17.8 per cent as against 6814 cases and 1257 deaths during the preceding year and a case-rate of 39 and a death-rate of 7 per 100,000 of population and a case-mortality-rate of 18.4 per cent; The decrease in the incidence of the disease during this year was marked in Cairo and Alexandria, and slight in most provinces except Ismailia, Port Said, Damietta, Frontiers Districts, Gharbia and Gerga which showed a slight increase.

#### Small Pox.

The number of small pox cases recorded this year was 4138 as against nothing in the preceding year. Investigations revealed that the disease was imported from the Hedjaz by returning pilgrims. The first cases were reported in Cairo and Gharbia province, after which the disease spread to all the other governorates and provinces, Damietta governorate excepted. Table No. 14 gives the distribution of cases and deaths. 384 deaths from small pox were recorded giving a case-mortality-rate of 9.2 per cent. The incidence was severest in Cairo and Assiut.

# Anti Small Pox Vaccination.

In view of the occurrence of small pox in almost all the country, a general vaccination of the whole population was carried out, a total of 13,721,811 persons being vaccinated during the year. Vaccination was continued during the following year in certain localities.

#### Cerebro Spinal Meningitis.

Some 114 cases with 57 deaths were reported during the year or a case-rate of 0.65 and a death-rate of 0.32 per 100,000 of population. This gives a case-mortality-rate of 50 percent as against 212 cases and 101 deaths during 1942 or a case-rate of 1.2 and a death-rate of 0.6 per 100,000 of population and a case-mortality-rate of 47.6 per cent. The greater part of the cases was reported from Cairo, Alexandria and Port-Said.

#### Diphtheria.

The number of cases of diphtheria notified during the year was 4143 with 1595 deaths or a case-rate of 23.8 and a death-rate of 9.1 per 100,000 of population, and a case-mortality-rate of 38.4 per cent as compared with 3950 cases and 1882 deaths during 1942 or a case-rate of 22.9 and a death-rate of 10.9 per 100,000 of population and a case-mortality-rate of 47.6 per cent. There were more cases this year than in 1942 in Cairo, Port-Said, Suez Frontiers Districts, Giza, Gharbia, Aswan, Fayoum and Behera; and less cases in Alexandria, Ismailia, Damietta, Dakahlia, Menoufia, Kaliubia, Sharkia, Assiut, Beni-Suer, Gerga Minia and Qena provinces.

#### Diphtheria Anatoxin Immunization.

A total of 110,397 children between one and ten years of age received the three anatoxin injections this year. Of these, 190 children contracted diphtheria after innoculation and were distributed as follows: 118 in Cairo, 62 in Alexandria, 7 in Dakahlia and 3 in Sharkia.

#### Measles.

4249 cases of measles with 1022 deaths were notified this year or a case rate of 24.4 and a death-rate of 5.9 per 100,000 of population and a case-mortality-rate of 21 per cent as against 9764 cases and 3654 deaths in 1942 or a case-rate of 56.6 and a death-rate of 21.2 per 100,000 of population and a case-mortality-rate of 37.4 per cent. More cases than in 1942 were recorded in Alexandria and Behera whereas there were less cases in the remaining governorates and provinces.

#### Influenza.

of 80.6 and a death-rate of 1.3 per 100,000 of population and a case-mortality-rate of 1.5 per cent as against 12,965 cases with 218 deaths in 1942 or a case-rate of 75.3 and a death-rate of 1.3 per 100,000 of population and a case-mortality-rate of 1.7 per cent.

#### Pneumonia.

6935 cases of pneumonia with 5762 deaths were notified this year or a case-rate of 39.8 and a death-rate of 33 per 100,000 of population and a case-mortality-rate of 83 per cent as against 6215 cases and 5296 deaths in 1942 or a case-rate of 36.1 and a death-rate of 30 per 100,000 of population and a case-mortality-rate of 85.2 per cent.

#### Fever Hospitals.

During the year, there were 20 fever hospitals, 15 Village Shelters, and 28 cordons in tents in service. A total of 67,460 patients composed of 45160 males and 22300 females were admitted to these hospitals during the year. Of these, 58426 or 38987 males and 19439 females recovered and 6798 or 4445 males and 2353 females died.

# Pilgrims.

15,771 Egyptian Pilgrims proceeded to the Hedjazthis year. The number of returning pilgrims who passed through Tor lazaret was 15,839. 49 Egyptian pilgrims died in the Hedjaz.

The following table No. 12. gives details of pilgrims isolated in Tor lazaret for developing infectious diseases:—

Table 12.

		Pil	grims						Tor Lazaret Personnel
		J. 12	P	,					Tor Lazatev Fersonner
Small Pox	•••	• • •	• • •	•••	• • •	• • •	• • •	26	Influenza 3
Dysentery	•••	•••	• • •	• • •	•••	• • •	•••	30	Small Pox 1
Pneumonia	•••	•••	•••	•••	• • •	•••	• • •	8	T. B 1
Influenza	•••	•••	•••	• • •	•••	• • •	•••	6	D <b>y</b> senter <b>y</b> 1
Erysipelas	• • •	* • •	•••	• • •	• • •	• • •	• • •	2	Bronchitis and Influenza 1
Malaria	•••	•••	•••	•••	• • •	•••	•••	1	
Paratyphoid	•••	•••	• • •	•••	•••	•••	•••	1	
				_1	Cotal		•••	74	· Total 7

The following table No. 13 gives details of deaths inside and outside the hospital at Tor lazaret:

Table No. 13

Inside Hospital	Outside Hospital
Pneumonia and General Debility	Senility and General debility (Egypt) 2  Diarrhoea
Gangarene of the right foot and Septicaemia 1  Total 8	Total 8

TABLE No. 14—Cases and Deaths of Chief Infectious Diseases Notified during 1942.

						4					- 1		
Governorate or		Small	Pox	Plag	gue	Тур	hus	Typl	noid	Menin		Diph	heria
Province	Year	C.	D.	С,	D.	C.	D.	C.	D.	c.	D.	O.	D.
								0. 700	250	1.00	90	7 000	===
Cairo {	1942 1943	1,193	96	_		2,244 8,751 524	554 1,912 151	3,560 2,227 1,516	$650 \ 405 \ 256$	102 48 35	$ \begin{array}{c} 39 \\ 14 \\ 22 \end{array} $	1,662 2,131 524	53 58 19
Alexandria	1942 1943	111	15	_		1,473	388	844	132	27	16	493	13
Ismailia {	1942 1943	$-{20}$	3			85 311	31 115 7	37 38 207	$\begin{array}{c} 12 \\ 2 \\ 30 \end{array}$	$\begin{array}{c} 1\\1\\17\end{array}$	$-\frac{1}{6}$	24 10 54	
Port-Said	1942 1943	46	- 2	$\begin{bmatrix} 14 \\ 7 \end{bmatrix}$	10	68 260	23 6	332	29 1	9	4	75 8	1 3
Damietta }	1942 1943		_		Park 170-000	14	11	9	3		-	6	7
Suez }	1942 1943	-1	1	 156	106		28 256	171 104 32	$\begin{array}{c} 20 \\ 24 \\ 6 \end{array}$	19 1	8	34	2
Frontiers }	1942 1943	-12	_	'		$\begin{array}{c} 113 \\ 225 \end{array}$	18 3	35	2	1	<u>·</u>	10	
Behera }	1942 1943	$-\frac{1}{2}$	1			2,788 $3,948$	628 731	110 70	17 17	$\frac{2}{3}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 116 \\ 127 \end{array}$	7 E
Dakahlia }	1942 1943	7	_ 1			$\frac{4,069}{3,004}$	708 575		25 7	5	3 4	288 187	20
Gharbia }	1942 1943	443				4,978 4,400	870 1,007	94 109	27) 25	13	9	263 281	21 16
Menoufia	1942 1943		_ 1	_		$2,367 \ 3,166$	426		17 16	1	$\begin{bmatrix} 4 \\ 2 \end{bmatrix}$	$\begin{array}{c} 206 \\ 130 \\ 101 \end{array}$	11 8
Kaliubia	1942 1943	— 98	$ \frac{1}{5}$	_		$\frac{363}{1,655}$	110 305	115 65	$\frac{16}{17}$	$\frac{2}{3}$	$\frac{1}{2}$	121 119	<b>8</b>
Sharkia )	1942 1943	$-{22}$	$-\frac{1}{2}$			1,477 3,785	274	75	15 14	6	3	$\begin{array}{c} 124 \\ 92 \end{array}$	Ę
Aswan }	1942 1943	16	1	_	<u> </u>	63 451	14 62	17	$\frac{3}{2}$	1 1	_	13 33	]
Assiut )	1942 1943		$\frac{-}{127}$			756 700	1	167	47 23	- $2$	1	98 62	. 4. 4.
Beni Suef }	1942 1943	236	$-\frac{1}{24}$			411 725	72	85 49	13 4	-4	4	70 60	4
Fayoum }	1942 1943	48	· — 4			$\begin{array}{c} 8 \\ 22 \end{array}$	1	36 36	18 9	_ 1	1	27 37	1 2
Girga }	1942 1943	175	$-\frac{7}{23}$	_	_	$\begin{vmatrix} 352 \\ 1,208 \end{vmatrix}$	73 257		11 13	_ 1	_	34 31	2.5 6.4
Giza }	1942					1,481	296	171	28	5	_ 2	76 136	4
)	1943 1942	326	31			3,680 55	14	95	23 18	<u> </u>		61	4
Minia }	1943 1942	83	9			144 165	54	31	14	—	, 1 —	58 49	Ę
Qena {	1943	170	11			1,118	256		9				
TOTAL }	1942 1943	4,138		15 163		22,054 40,188							
Pate per Million	1942 1943	237		•8 9•3					73 45				

AND 1943 AND THEIR DISTRIBUTION ACCORDING TO GOVERNORATES AND PROVINCES

Meas	iles	Tubero	ulosis	Acute Pne	eumonia	Influ	enza.	Mala	iria	Total of Disea		GENERAL	TOTAL
C.	D.	C.	1).	C.	D.	С.	D.	C.	D.	О.	D.	О.	D,
1,724 271 134 576 12 28 14 15 3 29 17 6 1 139 564 1,166 414 555 505 415 220 587 167 708 197 138 84 1,078 348 267 101 36 17 475 398 759 36 724 26 418 49	1 — 8 5 5 1 1 — 79 79 283 87 215 116 90 16 83 22 193 28 19 15 567 136 56 14 12 — 126 195 284 6 354 23 159 17 — — — — — — — — — — — — — — — — — —	109 347 338 113 292 104 63 101 64 173 143 28 8 154 161 52 47 119 136 62 19 164 112 113 73 57 65	12 12 12 52 67 22 50 39 55 5 157 179 165 138 183 195 72 43 57 122 74 20 64 48 64 48 64 48 64 40 21 120 60 44 50 60 60 60 60 60 60 60 60 60 60 60 60 60	1,545 2,329 10 5 81 94 9 10 210 89 5 8 118 111 111 90 147 106 149 99 121 79 62 34 34 11 245 216 107 134 5 82 79 87 218 44 61 80 117 75	30 49 28 46 42 9 6 232 132 87 24 20 33 51 53 300 69 144 63 57 29	849 746 540 438 645 287 423 113 42 347 806 231 734 47 7 170 418 463 413 112 148 196 301	11	134 60 264 22. 57 47 1,738 1,395 247 619 7,219 3,653 185 152 72 75 1,297 793 1,879 214 92 96 48 55 1,095 546	2 -4 4 -1 -1 -3 285 553 1 2 5 7 1 11 6 -2 1 24 66	3,148 2,5:7 1,552 1,939 35 27 251 172 91 41 389 162 78 158 356 394 750 356 1,049 743 580 5:2 555 334 428 215 410 96 828 1,112 226 179 318 208 328 219 329 188 613 204 512 249	123 100 79 85 41 58 47 14 8 133 115 30 47 44 28 67 43 93 34 95 49 97 41	20,940 26,495 13,934 14,395 2,052 1,016 1,293 1,563 212 188 1,847 2,917 826 854 5,412 6,436 7,591 5,243 8,620 7,957 5,024 4,816 4,141 4,624 3,787 5,571 8,036 4,400 3,458 4,801 1,521 2,344 1,945 1,454 3,401 2,732 3,758 5,154 1,882 1,200 2,640 7,511	7,480 8,497 2,397 3,696 130 198 172 210 74 84 298 633 50 26 1,179 1,3:3 1,667 1,074 2,170 1,904 923 889 490 515 808 971 383 668 1,319 912 376 369 207 170 423 655 1,190 1,071 748 301 495 1,090
9,764		1				12,965 14,056		20,9 7 16,530				102,360	22,949 25,266
£66 244		1			307 330					725 572		5,912 6,405	1,332 1,449

Remark: No cases or deaths of Cholera during 1942

TABLE No. 15.—Showing number of cases of notifiable Infectious Diseases Recorded during the last 3 Years and the Case Mortality Rates

					1941		1942			1943			
Disease				Cases	Deaths	C.M.R.	Cases	Deaths	C.M.R.	Cases	Deaths	C.M.R.	
Plague		• • •		14	6	42.9	15	10	66.7	163	119	66.8	
Typhus		• • •	• • •	9,414	1,751	18.6	22,054	4,411	20.0	40,185	8,272	20.5	
Typhoid and Paraty	phoid		• • •	5,758	1,179	20.5	6,814	1,257	18.4	4,430	790	17.8	
Scarlet Fever		• • •	• • •	91			39	2	5.1	54	3	5.5	
Cerebro-Spinal Fever		• • •	•••	159	94	59·1	212	101	47.6	114	57	50.0	
Diphtheria	• • • •	•••		4,037	1,931	47.8	3,950	1,832	47.6	4,143	1,595	38.4	
Measles	• • • • •	• • •	•••	9,769	2,864	29.3	9,764	3,654	37.4	4,249	1,022	24.0	
T.B. of Lungs		•••	• • •	6,296	3,026	48.0	6,608	3,472	52.5	6,770	3,647	53.8	
T.B of other organs	• • •	•••	• • •	84	<b>5</b> 01	_	157	525		104	544		
Chicken-pox	• • • • •	•••	• • •	1,862	15	0.8	870	8	0.9	1,238	21	1.6	
Puerperal Infaction.		• • •	•••	461	344	74.6	332	-208	62 · 7	375	187	49.8	
Dysentery	••	•••	• • •	3,447	508	14.7	3,553	577	16.2	1,873	604	32.2	
Influenza ··· ·		•••	• • •	11,120	178	1.6	12,965	218	1.7	14,056	219	1.5	
Anthrax ···		• • •	• • •	22	5	22 7	21	4	19.0	15	9	60.0	
Enceph. Latha		• • •	• • •	7	9		6	5	83.3	4	3	75.0	
			• • •	2,923	173	5.9	2,257	142	6.3	2,054	105	5.1	
Mumps ···		•••	• • •	1,755	19	1.1	1,453	30	2.1	1,449	31	2.1	
		• • •	• • •	20			9	2	22.2	6	4	66.6	
Leprosy	• • • • •	• • •	• • •	511	79	<b>15·</b> 5	520	82	15.8	<b>39</b> 3	68	17.3	
Rabies ···	•• •••	• • •	• • •	30	34		44	43	97.7	17	19		
Tetanus ···	• • • • •	•••	•••	433	314	72.5	459	313	68 • 2	442	294	66.5	
Acute Polio-Myelitis	•••	•••	• • •	16	9	56.2	5	1	20.0	7	2	28.5	
Dengue		•••	• • •				-		_	2	_		
Erysipelas		• • •	• • •	4,502	465	10.3	3,100	312	10.1	1,956	209	10.6	
Malaria		• • •	• • •	9,320	104	1.1	20,937	394	1.9	16,530	1,341	8.1	
Jaundice		•••	•••	3	2	66.6	1	-		2	1	50.0	
Small-pox		669	•••	-		_				4,138	<b>3</b> 84	9.2	
Relapsing Fever		***	• • •	- Onesson mayor		_			-	-			
Acute Pneumonia		•••	• • •	5,414	4,842	89 · 4	6,215	5,296	85.2	6,935	5,762	83.0	
Glanders		• • •	•••				-				_	1	
	OTAL	•••	•••	77,468	18,452	23.8	102,360	22,949	22 · 4	111,708	25,284	22.6	

TABLE No. 16.—GIVES THE FOUR-WEEKLY DISTRIBUTION OF TYPHUS CASES DURING THE PERIOD FROM 1935—19.3 (17-12-1943).

Weeks	1933	1936	1937	1938	1939	1940	1941	1942	1943
1-4	143	185	109	60	76	186	416	1,236	2,094
5-8	585	<b>38</b> 8	195	182	334	531	855	2,331	3,293
9-12	561	461	157	285	804	980	1,739	3,145	4,730
13-16	694	592	259	491	876	966	1,898	4,469	7,383
17-20	573	427	675	726	908	777	1,796	4,623	9,408
21-24	270	<b>35</b> 0	385	506	631	407	1,211	2,689	6,123
25-28	143	242	164	203	345	250	425	1,337	3,834
29-32	53	41	63	103	<b>13</b> 3	102	234	527	1,758
33-36	31	. 12	35	70	46	- 68	92	190	591
37-40	17	9	8	19	16	26	20	142	221
41-44	6	10	10	8	13	22	31	152	275
4 <b>5–</b> 48	24	15	10	9	11	29	235	291	114
49–52	51	25	13	49	103	72	462	922	347
TOTAL	3,151	2,757	2,083	2,811	4,296	4,416	9,414	22,054	40,171

TABLE NO. 17—Showing number of typhus cases and deaths and their ratios to a million of Population and case-mortality-rates per cent.

Tear	No. of Cases	Ratio of Cases per 1,000,000	No. of Deaths	Ratio of Deaths per 1,000.000	Case Mortality Rate	Year	No. of Cases	Ratio of Cases per 1,000,000	No. of Deaths	Ratio of Dearlis per 1,000,000	Case Mortality Rate
-	•										-to dead
1905	2,478	226	1,111	101	44.8	1925	1,314	94	290	21	22.1
1996	1,668	150	938	84	56.2	1926	966	68	201	14	20.8
1907	1,063	94	836	74	78.6	1927	794	56	189	13	23.8
1908	2,926	255	1,153	101	39.4	1928	599	41	138	9	23.0
1939	3,782	326	1,608	139	42.5	1929	1,141	78	214	15	18.8
1910	2,908	248	1,210	103	41.6	1939	288	19	74	5	25.7
1911	5,151	433	1,702	143	33.0	1931	265	18	57	4	21.5
1912	5,382	447	1,658	138	30.8	1932	2,298	153	399	26	17.5
1913	4,936	405	1,438	118	29.1	1933	7,865	515	1,332	87	16.9
1914	9,508	77]	2,533	205	26.6	1934	7,536	488	1,418	92	18.8
1915	17,096	1,368	4,216	337	24.7	1935	3,151	20,2	526	34	16.7
1916	30,507	2,412	7,096	561	23.3	1936	2,757	174	389	25	14.1
1917	18,569	1,451	4,174			1937	2,083			19	14.9
1918	25,246	1,952					2,811				
	16,986	299			32.8	1939					
.e e	13,253		3,510		26.5	1940					19.5
1921		335	1,271	95	28.3		9,414	558		104	18.6
1922			723.	<b>5</b> 3	29.0		22,054	,		<b>25</b> 8	
1923		142	603	44	31.2	1943	40,188	2,304	8,252	473	20.5
1924	1,683	122	588	42	34 • 9						

TABLE No. 18. VACCINATION AGAINST TYPHUS 1943

	NTO	T	4.0.3			No. o	f Cases	The second secon		
Govte. or Province	No	. Inocula	tea	After Is	st Inj.	After 21	d Inj.	After :	Brd Inj.	Compli- cations
Lanes courts t	Once	Twice	Three	Cured	Died	Cured	Died	Cured	Died	
Cairo	574	552	E96				gay-and.		di-Malakanya	
Alexandria	<b>5</b> 55	549	518		Arteringen					-
Sucz	27	3	58	-	<u> </u>				4	
Damietta :			280			_				_
Canal		1	166		_	_			<u>.</u>	
Frontiers Adm	17	1474	30	4		4		4		
Gharbia	7	29	214	2		2		2		_
Dakahlia	1	5	472		auresresults	_		_		
Sharkia	2175	2173	3196	6		3		2	_	
B.hera	118	111	238		_			_	_	<u> </u>
M noufia			830		y	-	_	_		
Kal ûbia	29	27	138					_		<del>de Sadada</del>
Gīzā	3	3	510		_	_		_		
Beni-Suef	28	10	66	_	_	_		_	_	-
Faycum	_	10	28			10		<u> </u>	_	-
Minia	217	217	217	_				_	_	
Assiut	559	519	389	_	_	_		_		
Girga	10	23	189	_		_	-	_		_
Q na	17	11	32	_	_	_				
Aswan	13	13	19	_		_	_		_	
TOTAL	4353	3759	8126	12		19	and the same of th	8	4	

TABLE No. .19—Showing No. VACCINATED AGAINST PLAGUE IN 1943

Governorate or Province				Cases	Deaths	No.	Ne	o. of Cas	es	No. of Contacts	No. of	
QOVELBOIATO V	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			Cases	Deaths	Vaccinated	Before	After	Sort	Observed	Alive	Dead
Gharbia Dakahlia Sharkia Behera Menoufia Kaliubia Giza Beni-Suef Fayoum Minia Assiut				7 156 — — — — — —	- 4 106 	- 4,738 46,247 598 - 95 - 116 - 1,276 388				- 4,738 46,247 598 - 95 - 116 - 1,276 388	588 8,523 - 250 - 16,407 1,635 67 - 22,977 6,506	- - - - 35 - 1,081 - 3,968 - - 178 - -
Т	OTAL	•••	•••	163	111	53,334	_	1		53,334	105,998	5,262

TABLE No. 20.—Inoculation against Typhoid in 1943

	1	No. Inoculated Twice		
Governorate or Province	By Health Offices	By Private Practitioners	Total	Remark
Cairo	76,102 137,381 1,200 — 1,990 2,613 4,115 1,737 1,102 2,889 1,062 1,429 2,277 714 665 2,666 2,880 1,423 1,287 383	- 263 - 113 410 207 219 - 564 - 65 - 64 - 64	76,102 137,381 1,463 — 2,103 3,023 4,322 1,956 1,102 2,889 1,626 1,429 2,277 761 665 2,666 2,915 1,423 1,351 383	
TOTAL	243,915	1,952	245,867	

TABLE No. 21.—GOVERNORATES AND PROVINCES VACCINATED AGAINST SMALL-POX IN 1943

Governorate or Provin	100	Population in 1937	Beginning of Vaccination	End of Vaccination	No. Vaccinated
Cairo		1,312,096 49,6°6 1,967,894 1,218,502 1,061,596 1,159,701 635,331 561,312 528,259 1,205,321 1,118,402 1,017,569 205,696 18,011 29,109 52,576 9,914	January 1943 January 1943 April 1913 August 1942 July 1942 July 1942 September 1942 June 1943 August 1941 April 1943 January 1941 September 1943 March 1943 November 1942 September 1942 September 1942 February 1943	November 1943 May 1943 October 1943 April 1943 M y 1943 F bruary 1943 S ptember 1943 October 1943 July 1943 October 1943 August 1943 November 1943 November 1943 F bruary 1943 December 1943 December 1943 May 1943	1,815,088 102,036 2,220,542 1,336,856 1,178,780 1,192,877 702,175 590,586 939,842 1,200,447 1,154,539 967,147 241,476 21,928 28,092 22,953 6,447
TOTAL	•••	12,700,375			13,721,811

Table No. 22.—Inoculation against Diphtheria by Anatoxin in 1943

Governorate or Province	No. inoculated	No. of cases observed after the 3rd inoculation	Complications
Cairo <td< td=""><td>39,626 18,532 1,553 1,519</td><td>118 62 — —</td><td>Some local inflam. and slight rise in temp.</td></td<>	39,626 18,532 1,553 1,519	118 62 — —	Some local inflam. and slight rise in temp.
Canal	2,381 372 5,528 3,344	7	
Sharkia          Behera          Menoufia          Kaliubia	3,312 1,993 3,330 1,961 3,094	3 - - -	
Giza	10,046 3,434 2,025 2,631		
Girga	2,083 2,260 1,373		
TOTAL	110,397	190	

Table No. 23.—Blood Samples taken in 1943 for Weil Felix Reaction

Governorate	No. of Samp	No. of Samples sent to Labs.			o. Positiv	70	No. Negative			No. Spoiled		
or Province	From Alive	From Dead	Total	From Alive	From Dead	Total	From Alive	From Dead	Total	From Alive	From Dead	Total
				<u> </u>								
Cairo	271	109			49	116	204	43		_	17	17
Alexandria	2,871		2,871	474		474	1,497		1,497			
Suez	2,(6	183	2,243	659	139	798	1,390	. 37	1,427	11	7	18
Damietta			1 000	482		482	604		- 60-t	_	-	-
Caral	1,086		1,086 424			15%		- 3	220	55		55
Fr. Adm.	433	1 021	6,341	2,120	254	2,374	1,85	1,328	3,213	318	363	681
Gharlia	4,410	1,931 2,183		9:-5	285	1,220	1,841	1, 7:	2,64	318	412	730
D. kehlia	2,510	782	,141	8)(	38	1,284	247	276	(523)	47	193	240
Sharkia B hera	$\frac{1.50}{3.02}$	687	3,699	1,192	61	1,250	1,650	3::	2,023	16c	210	370
Meroufia	2,0 2	1,5 '0	1,6:0	2,318	2:1	2,599	601	952	1,550	147	300	447
Kaliubia	2,7 (	372	3,102	1,380	81	1,466	4	180	1,316	216	93	309
G.za	136	365	499	5(	65	115	85	217	300	3	84	87
Bui-Suef	525	31(	8:15	14(	34	174	347	215	562	40	59	99
Fayoum	420	291	711	214	2.	25.6		2:(	392	24	59	83
Min a	221	15	233	21		21	27:		281	33	3	. 36
Assiut	917	17.	1,05	14.9	15	214	579	61	610	98	24	122
Griga	1,:3	183	1,518	217	15	500	1,001	106	1,218	31	36	67
Qua	1,16	٦ -	1,300	521		521	79	1	799	46		46
Aswan	992	<u>2</u> 2	924	380	7	50	900 000	i.	341	187	7	194
								# <b>Canada</b>				
TOTAL	29,688	9,138	38,826	12,426	1,701	14, 127	14,440	5,444	19,886	1,734	1,867	3,601

Table No. 24.—Statistics of Fever Hospitals in 1943

											-	
Fever Hospital	Admitted				Cured		]	Improved			Died	
at	Male	Female	Total	Male	Female	Total	Male	Female	Total	Mate	Female	Total
Alexandria Abbassia Port-Said Saez	11,2°9 15,634 1,403 1,007	7,617 324	13,313 23,211 1,721 1,326	13,461 1,158	6,700 276 185	1,029	160	<b>—</b> 7	1,276 	2,141 67 90	256 838 37 31	846 2,979 104 121
D mie(ta D; mai loui Mai sura	303 1,167 1,404	17! 85: 1,271	$474$ $2,020$ $2,6^{\circ}5$	261 1,059 1,274	1,20	4.774 1,774 2,474				42 134 156	22 131 9	64 265 253
Mit Gh mr Tarta Zifta	770 1,910 700 501	842 2,366 915 389	1,618 4,216 1,64 819	680 1,770 680 449	761 2,672 847 35	1,441 3,845 1,533				96 104 81 50	85 180 74 36	181 284 155 86
Fi kous Shebin El Kom Zigazig Beni Suef	1,313 2,600 1,130	1,197 1,791	2,510 4,391 1,908	1,686 2,374 911	99° 1,578 687	2,084 3,952 1,586	23 37 68	31 33 20	5 1 70 88	175 200 146	153 204 69	328 404 215
Mmia Assiut Sahag	772 1,144 918	350 444 360	1,122 1,588 1,278	693 1,003 824	310 393 330 88	1,003 1,396 1,154 511	17	4	21	- 69 125 83 42	24 46 27	93 171 110
Q na Luxor	699	112 264	573 897	423 588	237	825		ORIGINATES		51	22 21 ———	64 75
Total	45,160	23,300	67,430	33,587	19,439	58,426	1,523	328	1,851	4,445	2,353	6,798

<sup>20 —</sup> Fever Hospital, Alexandria, included. No. of Hospitals 20 No. of V. Shelters 15.

<sup>28.</sup> No. of Cordons

## MECDO LEGAL

The number of medico legal cases examined by the medical officers of health during the year amounted to 40,005 accidental and 79,112 criminal cases. These are distributed according to locality in the following table No. 25

Table No. 25:—Showing distribution of Medico Legal cases during 1943

	Slight	Cases ·	Serious	Cases	Fatal	Cases	To	ta l	Remarks
Provinces	Accidental	Criminal	Accidental	Criminal	Accidental	Criminal	Accidental	Criminal	Remarks
Behera	1,121	2,944	274	166	221	117	1,617	3,227	
Gharbia	2,574	8,120	378	488	501	25:	3,454	8,865	
Menet fia	982	2,517	300	482	225	18:	1,510	3,182	
Sharkla	1,085	1,75	458	, 168	258	121	1,798	2,042	
Dakahlia	1,330	5,085	340	65.6	448	334	2,130	6,048	
Kaliubia	347	730	110	214	130	99	590	1,037	
Giza	637	1,285	64.	60	144	74	845	1,425	
Fayoum	398	1,279	203	298	99	108	698	1,680	
Beni Suef	454	2,597	180	238	140	57	781	2,887	
Minia	630	2,714	210	230	145	187	985	3;134	
Assiut	1,324	3,678	190	302	236	22(	1,750	4,200	
Gerga	831	3,370	279	504	299	160	1,400	4,040	
Qena	528	2,371	9.5	147	172	95	788	2,611	
A.swan	175	149	10	19	30	4	215	172	
Canal	4,875	588	2,965	213	240	58	8,080	859	
Suez	231	1,249	45	11	57	19	33:	1,279	
Damietta	17:	840	6	0	36	3	215	851	
Cairo Police	1,682	29,974	85	168	1		1,768	30,142	
Alex. Police		812	6,119	99			9,785	911	
Frontiers	000	370	500	96	126	47	1,446	516	
Total	23,861	72,434	12,825	4,537	3,519	2,141	40,205	79,112	

# Chapter III.—INDUSTRIAL HYGIENE

#### UNHEALTHY, INCONVENIENT & DANGEROUS ESTABLISHMENTS

#### 1. Applications for new permits.

The number of applications for new permits for Unhealthy Establishments of the first class during this year was 216 as compared with 312 in the previous year.

The number of applications for new permits for general and cattle markets was 4 as compared with 9 in 1942.

Applications for new permits for Establishments in: Dakahlia, Gharbia, Behera, Menoufia and Damietta Governorate are not included. These are being dealt with by the special Committee convened in the Labour Department for facilitating the procedure of issuing permits.

#### II.—Licensed Establishments actually working.

The total number of Unhealthy Establishments of the three classes licensed and actually working in Provinces and Governorates (excluding establishments in Alexandria) was 74107 in 1943.

#### III.—Ministerial Arrêtés.

In accordance with the ruling given by the Contentieux regarding issue of Ministeria Arrêtés providing for the improvement of sanitary conditions of establishments, 27 Ministerial arrêtés were issued during this year as against 14 in the previous year.

#### IV.—Modification of the Schedule.

As provided by Article 2 of Law No. 13 of 1904, the schedule was revised with a view to modifying the space which should be left between certain unhealthy establishments and habitations because of the nuisance caused by the presence of mechanical and electrical motors or by the particular industry.

A Departmental order No. 5 was issued on January 2, 1943, specifying the new space for such establishments.

# Chapter IV.—FOOD CONTROL

Statistics showing work done by Food Control Gangs in Customs Houses during 1943
Table No. 26

A. - Consignments examined and Results of Samples taken therefrom

No. of	No. of Samples	Results of Analysis							
Consignments examined	Taken Taken	Genuine	Unfit	Adulterated					
9154	478	234	141	103					

Table No. 27.—Foodstuffs condemned or refused admission into the Country

Food		Kilos	Cans or Bottles	Boxes	Sacks	Baskets	Units	Barrels or tins
Fruits  Meat  Jams and Dried Fruits  Milk and its Products  Meat  Vegetables and sauce  Fish  Olive oil  Linseed oil  Flour  Flour Products  Sweets and chocolate  Sugar  Dutch and Greek cheese  Butter  Fat and Margarine  Tea  Coffee  Wine  Beer  Seeds and Corn  Nuts and Almonds		18,605 403,955 11,430 65,28 1,937 625 346 56,402 11,075 645 618 4,140 1 339 17 4,007 925 80.5 2,358.5 441 — 160,089 2,200 71 000 587	1,80½ 2,679 75 766 103,059 — — — — — — — — — — — — — — — — — — —	- 60 111 - 9 - 22 - 3 - 140 - 11			24	2 (tins) 40
TCTAL	• • • •	822 726	117 745	256	1 398	225	24	46

Table No. 28—showing No. of samples of malk taken during 1943 and result of their analysis.

	Result of Analysis									
No. of samples	Genuine	Adulterated by removal of fat	Adulterated by addition of water	Adulterated by both						
23,190	21,445	777	897	71						

Table No. 29.—Various Statistics 1943

P.V. drawn up under article II of Law No. 48 of 1941	No. of P.V. drawn up against Itinerant Vendors	No. of P.V. drawn up against Milk Vendors	Bandars to which the itinerant ven- dors regulation was applied	Bandars to which the milk vendors regulations was applied	No. of itinerant vendors licensed during 1943	No. of milk vendors licensed during 1943	
2,166	11,672	3,531	1]	4	1,184	647	

TABLE NO. 30.—Showing QUANTITIES OF FOODSTUFFS CONDEMNED, NUMBER OF SAMPLES TAKEN AND RESULTS OF THEIR ANALYSIS DURING 1943. (THIS LIST DOES NOT INCLUDE THE FIGURES FOR CAIRO AND ALEXANDRIA GOVERNORATES AND THE FOOD CONTROL GANGS AT THE PORTS).

n		1						
Percentage	Untitness	%		1111	1		4.18	3.29 1.57 8.36 12.3
Perce	Adulteration	%			1			4.38 3.06 3.07 50 7.27 4.85
	Not analyzed				I			
	Unfit				1		50	6.6 IC ⊗ IC
Samples taken	Adulterated			1.1.1.1	ı		1   1   1	. 8 15 64 55 10 10
	Genuine			1111	l		4694617	168 1,079 575 558 59 98
	Number of Samples	2 4			l		40 7 0 8 4	183 1,143 655 65 116 69 103
	Okes			79,235 16,867 4,202	l		15 4,316 2,991 2.8 163 369	178 46 46 36 8
ned	Rottle (Ib)			12,488 1,109 —	1		2,195 466 176	164 
Foodstuffs Condemned	Cans			733			438 89 3,9 0 260 7,514 86	
Food	Bottles				3		168 4 4 85	
	Number			105,478 311 37			15 1,302 818 1,197	
	Name of Article		(a) Fresh Foods:-	Fruits and Vegetables.  Fish Meat Other Fresh Foods	(b) Cooked Foods	(c) Canned Foods:—	Jams Milk and its Products. Fruits and Vegetables.  Meat Fish Other Canned Foods	olive Oil Sesame Oil Linseed Oil Sufflower Oil Cotton-Seed Oil Other Oils

	1 0
1.83 1.83 1.49 1.6 1.003 1.33 6.41 1.77	
2.70 1.58 1.66 1.66 1.66 1.66 1.66 1.66 1.66 1.6	
10   120   120   120   120	90 h 5 h-4
53 10 10 10 10 10 10 10 10 10 10	698
609 30 1,745 126 138 855 855 87 87 116 116 120 120 120 120 120 120 120 120	63,63
2,290 2,296 2,296 2,296 2,444 3,445 1,282 1,282 1,092 1,322	7.0 7.0 6.0 6.0 6.0 6.0 7.0
2, 32 1, 017 1, 017 2, 234 4, 109 2, 234 1, 294 1, 294 1, 325 1,	86.7.09
1,236 1,197 1,197 1,197 1,195 1,195 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,281 1,955	00 PM
1,09 1,09 1,09 1,09 1,09 1,09 1,09 1,09	65
3,017 738 - 5 - 5 - 7 - 7 - 10	23,426
13,501 1,519 2,272	18,430
13.114 8,718 8,718 219 219 111 2,160	154,330
	3
Like Ec.	Tor
r Foods: coducts und Choco Milk  Milk  Tahinia  Vater  C Liquors  od Corns Imonds, e	GRAND TOTAL
Different Foods:— Flour Products Sweets and Chocolates Sugar Milk Curdled Milk Curdled Milk Margarine Mash Mash Mash Margarine Coffee Cocoa Vinegar Tea Vinegar Seeds and Corns Non-alcoholic Liquors Non-alcoholic Liquors Non-alcoholic Erinks Seeds and Corns Nuts. Almonds, etc. Spices Other Kinds	9
Flour Products  Flour Products  Sweets and Chocolates. Sugar  Milk  Curdled Milk  Curdled Milk  Cheese  Margarine  Halawa Tahinia  Tea  Coffee  Cooffee  Coo	
<u> </u>	· ·

#### Part II.—SOCIAL HYGIENE

# Chapter V.—MATERNITY AND CHILD WELFARE

Maternity and child welfare services are now made available to all clases of the population, irrespective of their social status.

19 maternity and child welfare centres which had hitherto been under the Provincial Councils' supervision. have now been attached to this Ministry, under Law No. 46 of 1942. These are:

- 1. Child welfare centre at Toukh together with Dayas school attached thereto.
- 2. ,, ,, Kaliub, ,, ,, ,, ,,
- 3. , Shebin el Karater, together with Dayas school attached thereto.
- 4. ,, Zagazig, together with Dayas school attached thereto.
- 5. Abu-Kebir centre.
- 6. Mina el Kamh centre.
- 7. Belbeis centre.
- 8. Santa centre.
- 9. Biala centre.
- 10. Shebin el Kom centre.
- 11. Ashmoun centre.
- 12. Tala centre.
- 13. Minshat Sabry centre.
- 14. Embaba centre.
- 15. Wasta centre.
- 16. Beba centre.
- 17. Manfalout centre.
- 18. Sohag centre and Dayas School attached thereto.
- 19. Damanhour centre and Dayas School attached thereto.

In addition, the Kafr el Zayat Municipality Child Welfare Centre has also been handed over to this Ministry.

Two posts of a Medical Officer and a Pharmacist were provided in the establishment of Travelling Welfare Centres Nos. 4 and 5 at Helwan and Gerga respectively.

The mobile welfare centres in the following towns were converted into permanent centres:

Zifta.

Edfou.

Abu-Tig.

Helwan.

Gerga.

Dessouk.

Beni-Mazar.

This step was taken in the interest of both the public and the centres.

A ten-bed in-patient department was created in the Children's Orphanage at Sayeda Zenab, Cairo, for the treatment of slight ailments among resident foundlings and stray children.

In pursuance of the principle of raising the technical standard of medical officers, five racdical officers were sent to the Faculty of Medicine on a post graduate course in Pediatrics.

Ten schools for graduating Assistant Midwives and Health Visitors were inaugurated at the following localities:

Assiut.

Beni-Suef.

Tanta.

Zagazig.

Bab el Shaaria (Cairo).

,,

Boulac

Shoubra

Old Cairo

Zeitoun

Sharabia

160 girl students joined these schools which will provide welfare centres and tural health groups with the required personnel.

It has been decided to issue milk gratis daily to poor mothers, children and pregnants attending the centres.

Concentrated Vitamin D was distributed to rachitic children and those susceptible to attack with rickets.

Child Welfare units throughout the country celebrated the anniversaries of the accession of H.M. the King to the Throne of Egypt, and the birthday of H.R.H. Princess Ferial. On these occasions, prizes were awarded to infants for good health and cleanliness. Advantage was also taken of these events to distribute monetary presents, foodstuffs and shoes to poor mothers and children attending the centres. Moreover, a theatrical performance was held at the Royal Opera House, at Cairo, which was attended by H.M. the King's Delegate.

## Statement of the Section's activities during 1943.

Pregnants (old cases)	• • •	• • •	• • •	• • •		• • •	• • •	337,142
Pregnants (new cases)				• • •	• • •		• • •	84,348
Blood specimens for Wassermann test	• • •		• • •	• • •	• • •	• • •	•••	72,060
Positive to Wassermann reaction		• • •	• • •	• • •	• • •	•••	• • •	4,346
Children attendance	•••	• • •	•••	•••	• • •	• • •	• • •	1,176,673
Circumcision operations	• • •	• • •	• • •	• • •	• • •		• • •	694
Infants vaccinated against small pox	• • •		• • •	• • •	• • •	• • •	• • •	14,667
Inoculation against diphtheria		• • •	• • •	• • •	• • •	• • •	• • •	8,418
Labours by midwives at centres	• • •	• • •	• • •	• • •	• • •	• • •	• • •	15,009
Labours by Asst. Midwives	•••	• • •	• • •		• • •	• • •	• • •	63,486
Labours by Medical Officers								458
Labours from outside (not registered)				P 0 0		* * a	* * *	6,629
Cases attended throughout puerperium -		• • •	• • •		• • •		• • •	2,614
Cases of confinement sent to hospitals	•••	• • •			• • •	• • •		1,403
Total number of cases of confinement								78,953
Still births at full term								1,293
Premature births (during first thee month								199
Premature births (after the sixth month)								241
Maternal mortality due to confinement	•••	• • •			• • •		• • •	20

	,				
Infantile deaths in the first month of li	fe	• • • •	••	***	522
Medical Officer visits to sick puerperals			••	•••	1,667
Midwives visits to pregnants in the 9th	month	• • • •		• • • • • • • • • • • • • • • • • • • •	355,(50
Midwives visits to puerperal mothers				• • • • • •	36,580
Other visits				• • • • • •	16,506
Visits to pregnants' homes		• • • •		•••	16,159
,, children's homes		• • • •		•••	47,043
Cases of Eclampsia		• • •	••	• • • • • •	54
Laceration of perineum		• • • •	••	•••	441
Cases of placenta previa		• • • •	••	• • • • • •	16
" puerperal sepsis			••	•••	2
Urine samples	• • • • • • •	• • • •	• • • • •	• • • • • •	296,297
Antenatal albuminuria	• • • • • • •	•••		•••	4,926
,, diabetes	• • • • • • •	• • • •		•••	58
Lectures given by Medical Officers	• • • • • • •		•••	•••	4,312
Lectures given by Midwives	• • • • • • •	• • • •	••	•••	8,209
Lectures given by Asst. Midwives	• • • • • • •			•••	7,144
Contribution to mothers and children (r	milk foods)				29,460
,, ,, (0	clothing)			•••	4,420
. ,, ,, ,, (0	eloth)		• • • • • • • • • • • • • • • • • • • •	•••	9,645m.

# Chapter VI.—CHEST DISEASES

Distribution of Tuberculosis in Egypt.

Egypt first launched its can paign against tuberculosis in 1928 when tuberculosis was added to the Schedule of Notifiable Infectious diseases. Since then, chest diseases dispensaries have been established for the examination of patients and their instruction in prophylactic measures and general hygiene by competent staff. The first of these dispensaries was created in Cairo in 1929 and during that year 634 positive tuberculous cases were discovered. With the creation of new dispensaries, more positive cases were discovered until, by the end of 1943, fifteen dispensaries were in service and no less than 48016 tuberculous cases on record.

The following is a detailed summary of the incidence and mortality of tuberculosis in recent years.

TABLE No. 31

	ì	Y	ear				No. of Dispersaries	New patients examined	No. of Tuber- culous pts. discovered	Mortality
1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1943							2 3 3 4 4 5 6 8 12 13 14 14 15 15	5,787 7,750 22,0:4 20,519 24,664 33,461 42,282 56,994 65,053 96,957 113,296 121,177 101,957 97,367 100,551	1,007 529 1,707 838 1,246 1,563 2,388 2,855 3,546 4,320 4,933 5,361 5,598 5,986 6,139	103 167 203 241 724 596 871 1,026 1,225 1,362 1,450 1,387
			To	ŗal	666	+4.8	_	909,829	48,016	9,355

These figures show clearly the ever increasing number of patients who avail themselves of the services of these dispensaries.

The following tables show the number of patients examined, cases diagnosed, and occupational and geographical distribution of tuberculosis in 1943.

306 Tradesmen, (50/o) consisting of 87 food sellers.

31 cattle & poultry merchants.

72 grocers.

24 fruiterers.

92 other trades.

420 Employees, (7%) consisting of 199 Civil servants.

109 commercial employees.

31 teachers.

81 other employees.

1973 Workers (32%) consisting of

Domestic servants, 50 farrashes, 24 gate-keepers, 72 barbers, 47 laundry-men, 89 drivers, 125 tailors, 93 shoe-makers, 109 carpenters, 76 painters, 121 building workmen, 163 company employees, 135 weavers, 188 mechanics, 51 printers, & 417 other jobs.

1107 FARMERS (180/0)

170 Students (3°/°)

2163 UNEMPLOYED (35°/°) of whom

1597 Unable to work.

223 children.

343 unemployed.

# Activities of Chest Diseases Units.

The Ministry is going ahead with its programme of providing more preventoria, dispensaries and in-patient departments; contacts are, as usual, carefully looked after; patients whose professions bring them in contact with the public are strictly supervised and the incapacitated are provided with funds. In short, the Ministry is sparing no effort in the constructive, social and therapeutic fields.

#### CONSTRUCTIVE WORK

# A.—Dispensaries.

Fifteen dispensaries are so far in existence. Of these 3 are in Cairo, 8 in Lower Egypt, and 4 in Upper Egypt. These dispensaries are specially equipped for diagnosis and treatment. A chest diseases specialist is in charge of each dispensaries at Menouf, Samalout & Luxor health visitors. There are besides three branch dispensaries at Menouf, Samalout & Luxor in connection with Shebin el Kom, Minia and Kena dispensaries respectively. Treatment in these branches is given once or twice weekly.

#### B.—Sanatoria.

There are two sanatoria at Helwan and Abbassia each with an accommodation of 500 beds. Morcover in-patient departments have been provided in Z gazig, Mansoura, Damietta, Tanta and Fayoum dispensaries and two more are in the course of construction at Port-Said and Damarhour. Each of these in-patient departments has an accommodation of twenty beds except Danietta which has thirty five beds and Mansoura which has twenty five beds. It is the intention of the Ministry to provide the remaining dispensaries with in-patient sections since these have proved very useful and essential to the patients living in the neighbourhood.

#### C.—Institutions for Bone Tuberculosis:---

There are two of these institutions, one in Alexandria with an accommodation of 80 beds ard the other, with 50 beds was attached to Abbassia Chest Diseases Hospital, but is now accommodated in No. 19 Yousif Pacha Street, Helwan, which was kindly donated by H.H. Princess Khadiga Abbas Halim for use as a hospital or sanatorium, with special privileges for the inhabitants of Helwan. It has an accommodation of 120 beds of which 110 are reserved for free treatment, 2 paying beds at P.T. 46 per day each and eight paying beds at P.T. 20 per day each. As a token of gratitude to H.H. Princess Khadiga Abbas Halim in appreciation of her generous gift, this institution has been named after her.

# D.—Settlement for Convalescents:—

Many a convalescent requires further treatment and care after discharge from the sanatoria, otherwise there is great darger of a recurrence of the disease through poor diet or exhaustive work.

It was proposed to provide a settlement for such convalescents where they can live with their families under medical supervision and care and pursue their particular occupations in the various workshops set up therein. Similar settlements provided in Papworth and Preston Hall, proved a great success; and it is hoped the time will not be far off when this settlement becomes self supporting.

The Air Raid refugee camp at Merg has been requisitioned for the purpose and is now known as the Merg settlement for T.B. convalescents. Convalescents with-their families began to arrive in November 1943 and 15 convalescents are actually in residence with their families.

Owing to lack of funds, the Arti Tuberculosis Society was requested to contribute a sum of L.E. 500 towards providing the workshops in the settlement with their requirement of raw material.

Social and Preventive Measures.—No anti-tuberculosis scheme is complete without consideration being given to social and preventive measures. With this object in view, no effort is spared by the Ministry to provide the patients, their children and contacts with facilities to lead a comfortable life. The following are the measures taken to attain this end.

(1) Preventoria.—There are four of these in Zeitoun, Marg, Mahalla el Kubra and Assiut. They are intended to accommodate children of tuber ulous parents with a view to their protection against infection by eliminating them from the source of infection and providing them with good nutrition.

Treatment by ultra violet radiation was tried this year in Alexandria preventorium. During summe hildren from CairoPreventorium were sent in batches to Alexandria where they enjoyed the sea-side sun and air. The result was satisfactory and it is proposed to extend this privilege to children of all other preventoria by giving them the chance of spending the summer months in Alexandria. Travelling expenses will be borne by the treasury.

(2) Contacts.—Are persuaded to attend the dispensaries regularly for examination and instruction in methods of protection. The following are details of contacts who attended the dispensaries during 1942 and 1943 and those who developed the disease.

Table No. 32.

WI WI	of Contacts ho Developed	
Total T	homes less's	
	Tuberculosis	
	322	
	7400 7237	

<sup>(3)</sup> Persons who come in contact with the public by reason of their occupations.—The Itinerant Verdor Law No. 73 of 1943 was published during the year. This provides that persons ergaged in the preparation or sale of feedstuffs will not be authorised to pursue their occupations unless they are pronounced free from infectious diseases, tuberculosis included. Tuberculous persons will be catered for by the dispensaries.

- (4) Donations.—Funds are placed at the disposal of the dispensaries in aid of destitute patients. The sum of L.E. 5,000 was provided in the budget for this purpose. Annual contributions by Provincial Councils have been increased to L.E. 350 each. This increase, however, was inadequate to meet the needs of all the patients. One thousand families have berefitted by this scheme to the extent of L.E. 9874,364 mills. The Mir istry of Social Affairs contributed L.E. 600 at the rate of L.E. 20 per patient. Some patients received a lump sum to start business. Others had it in instalments. The public, the charitable institutions and firms also made contributions to these patients.
- (5) Employment of able ex-patients.—Whenever possible, suitable work is offered to patients on discharge from the chest diseases units or to their relatives in order to afford them a means of living and thus eliminate the danger of relapse should they have to undertake hard work.
- (6) Students.—Police and constable cadets as well as university and other students are given preferential treatment by the sanatoria. They are accepted in the special 3rd. class at half treatment fees and are given priority in admission so that they do not become a source of infection to their schoolmates.

### THERAPEUTIC MEASURES

(1) Dispensaries.—There were 15 dispensaries in service which examined a total of 100,551 persons during the year. Of this number 6,139 were returned positive for tuberculosis. Of these 235 or 4 per cent were children and the remaining 5,904 or 96 per cent were adults.

Some 22,514 visits were paid to patients in their homes by nurses and 5, 552 visits were paid by medical officers.

Herebelow are details of the various treatments given by dispensaries during the year.

A.—Domiciliary Treatment.—The following Table No. 33, shows the results of domiciliary treatment (cases requiring special treatments e.g. A.P., gold, etc., or residents in Sanatoria are not included).

TABLE No. 33

		Total of patients 1943
	No. of positive cases	6683
Condition of patient on first examina- tion at dispensary	Sputum } Positive Negative	5119 1564
	Lesion Bilateral Cavitary	2569 4114 2578
	Last sputum ) positive Negative	4554 2129
Result of treatment	Gain in weight	1870 1646 1810 1357
Ability to work after treatment	Unable to work  .ble to walk  .mdertaking light jobs  lesun ing complete work  Dead	1395 1875 1158 398 1357

B.—Artificial Pneumothorax Therapy: Below is given the number of patients who received A.P. treatment and the results obtained during 1943.

		Total No of patients who visited the dispensary in 1943	
No. of patients treated by A.P	q •••	1769	
No. of inductions	• •••	360	1
No. of Refills	• • • •	21974	
Condition prior to treatment:			
Sputum   Positive	• •••	1438	
		331	
Extent of Lesion { Unilateral	• •••	1498 (of which 11	72
	• •••	333 Cavitary	
No. of cases with haemoptysis	• • • •	274	
Unilateral collapse	• • • •	1653	
Bilateral collapse	• • • •	115	
Extrapleural		5	
Continued refills	• •••	1347	
Refills ceased on account of:—			
		00=	
Adhesions	• • • •	207	
Spread to the contralateral side	• • • •	136	
Pleural effusions	• • • •	177	
Result of treatment:			
Sputum still positive	* ***	883	
Sputum still negative	• • • •	282	
Sputum became negative	• • • •	524	
Sputum became positive	• •••	80	
Gain in weight	• •••	1016	
Loss of weight	• • • •	318	
Stationary		307	
Dead	• • • •	128	
/ Urable to work	• •••	295	
Ability to Work after   Urable to work	• • •	578	
treatment Able to undertake light work	• •••	570	
Capable of doing full work	• • • •	198	

# II.—Sanatoria & Dispensary In-Patient Sections:—

To meet the ever increasing number of patients, a 50-bed ward was created in Helwan Sanatorium. This is reserved for advanced cases on Sanatoria waiting lists and is known as Ward No. 10. At the same time the orthopedic section, which had been vacated in Abbassia hospital, was occupied in May 1943 by children suffering from pulmonary tuberculosis formerly accommodated in Helwan sanatorium.

The following tables give information regarding patients who were admitted to Helwan Sanatorium, Abbassia Chest Diseases Hospital, and to the in-patient departments of Mansourah, Zagazig, Damietta, Tanta, Fayoum and Assiut Dispensaries.

				n department from the department of		~		
	Maasora	Zagazig	Damieta	Fayoum	Tanta	Assint	Helouan	Abbassia
No. of Pts. present on January 1, 1943  No. of admissions during the year	20 75	18 59	32 109	19	20 52	— 51	444 1,107	48 <b>0</b> 89 <b>7</b>
No. of discharges during the year	68 44	58 45	100 79	34	55	36	1,071	846
Sputum Negative	24	13	21	31	42 13	30 6	751 320	-432 414
Extent of lesion   Undateral	49 19	38] 20]	94	18 16	46. 8	29	491	59
Cavitary	27	46	55	14	29	22	569 439	25 <b>6</b> 28 <b>5</b>
Temperature Settled Unsettled	20 48]	50 8	60 40	11 23	12 42	11 25	629 442	443
Treatment prescribed:	41	5						
General Treatment Graduated exercises	27	5 2	100 48	15 15	26	9 27	510 632	84 <b>6</b> 253
Gold Therapy No. of patients	12	_	-	6 64	-	_	24	2 <b>5</b>
Tuberculin No. of patients		_	_			_	276. 7	22 <b>3</b> 2
Treatment No. of injections  Artificial preumothorax:	_	_	-	_	_		4.	43
Inductions	15	49	69	17	27	12	408	479
Refids	416	1,530 —	— 69 —	345	1	133	6,070	6,070
Phrenic Evolsion or Crush			-				109	116
Aspirations	3	6	_	_			42 42	203
Thoracoplasty	_	1 8	2 16	1	_	_	100	72
Complications	8	3	5	_ 1	- 6	6	196 1,044	171 18
No. of other injections Causes of discharge:		200		316		280	1,612	7,051
Taken leave but	7	r						
At their own request Refused treatment	16	7	- 8	<b>-</b> 5	12	$\frac{1}{4}$	36 პ <b>ა</b> ა	23 299
Having excuses	17 34	25 20	1	11	9	28	125	5
With the consent of sttending physician \ Increased	50	30	90 80	16 22	32 30	$\frac{3}{21}$	40±	400 445
Weight Decreased Sationary	£ 4	16 10	9 10	8	7 16	12	250	103
Temperature } Settled	55	50	77	16	34	25	750	248 594
Unsettled Still positive	1: 2:	12	22 <b>6</b> 0	าะ 28	19 24	11 23	210	252 507
Sputum ( ,, negative	19	8	24	2	12	6	2011	213
Became ,, ,, positive	23 3	21 5	15	4	17	7	100	240 26
Successful AP	18	47	46	16	22	7	300	
Unsuccessful A.P	52	30	47	$\frac{1}{20}$	6 30	5 27	651	91 509
Cases became worse Stationary cases	8	11 15	8 14	6 8	3	6	102	. 80
Dead		2	14		14 1	— ა	100 90	174
Ability to Work:	2	2	28	7	12	10	26	7
Able to work Partially	20	33	25	16	22	18	600	
/ Unable to work The average stay in days	46 140		41 89	17 169	19 132	ა 108		111
Patients spent more than 6 months  Patients stayed less than 6 months	16 52	19 39	12 88	17 17	17	5	422	548
Laurence stayed ress than o months	02	00	00	7.1	37	31	6:1	498
								- 0

## III. Othopoedic Institutions; --

Princess Kadiga Abbas Halim Orthopoedic Hospital, Helwan, was inaugurated on 22.4 1943. It is reserved for patients from Cairo and Upper Egypt while the Maritime Sanatorium Alexandria, is kept for patients from Lower Egypt. Table No. 42 gives the number of patients treated at these two orthopoedic institutions.

6,139 850 722 476 299 354 324 230 638 590 85 782 154 186 231 Total 9 60 Оваез S 4 200 **MBWBA** C.1 3 CASES NOTIFIED BY THE DISPENSARIES DURING THE YEAR 1943 ACCORDING TO RESIDENCE 3 84 Qena 26 36 3 ಛ ಣ 3 Girga 202 2 4 4 523 10 duiesA ಣ ಣ ಣ 184 174 Minia 154 199 9 Fayoum 12 ಲ 49 ಲಾ Beni-Suef 202 39 27 269 Giza 45 38 40 142 Kaliubia 12 25.8 10 32  $\infty$ S 324 Sharkia 350  $\odot$  $\infty$ 40 32 679 ಲ 229 Dakahlia 2 30 12 23 154 238 Menoufia  $\infty$  $\infty$ 8 268 222 69 2962 Gharbia 278 40 0 3 330 Верега 2.2 15  $\infty$ 20 10 silismel bas Canal, Suez 3 83 92 Port-Said 4 205 20, Damietta ಣ 283 591 Alexandria 1,649 648 47 122 Oairo Dirensary TOTAL ... ... Mehalla el Kobra " 3.3 Shebin el Kom Unit Mobtadayan Damanhour Alexandria Mansoura Damietta Zagazig Khalifa Boulac Fayoum Tanta Assiut Minia Qena

35.-NUMBER OF POSITIVE TB.

TABLE No.

TABLE No. 36.—AGE DISTRIBUTION OF DEATHS RECORDED IN CHEST DISEASES
DISPENSARIES DURING 1943

Dispensary	1-5 Years	5-15 Years	15-25 Years	25 35 Years	35-45 Years	Over 45 Years	Total
Boulae		22	58	101	40	16	237
Mobtadayan		13	37	46	24	9	129
Khalifa	5	21	104	70	27	22	249
Tanta		6	14	18	8	12	58
Mansoura	- Carrenage	1	23	25	18	6	73
Shebin el Kom		2	9	12	8	3	34
Mahalla el Kobra	1	13	20	19	3	4	60
Zagazig		6	6	5	5		22
Damanhour	4	10	30	15	6	3	68
Alexandria	1	3	90	49	24	17	184
Damietta	4	6	40	31	8	4	93
Fayoum		3	21	25	26	7	82
Assiut	1	2	7	9	8	9	<b>3</b> 6
Minia	1	1	19	13	7	4	45
Quna		1	5	4	5	2	17
TOTAL	17	110	483	443	217	118	1,387

Table No. 37.—Monthly Attendance of Patients at the Chest Diseases Units During the Year 1943

Month?		Number of Patients	Month Number of Patients
January	•••	8,424	July 8,352
February	•••	8,230	August 8,609 Total
March	•••	10,336	September 6,957 Number
April	•••	8,649	October 7,811 109,531
May	•••	9,656	November 7,943
June	•••	8,443	December 7,111

TABLE NO. 38.—NUMBER OF NEW PATIENTS ATTENDING CHEST DISEASES UNITS DURING THE LAST FIVE YEARS AND NUMBER OF POSITIVE CASES

		Ŷ	ear				Number of new patients	Positive for T.B.	Percentage
1939	•••	•••	•••	•••	•••	•••	113,296	4,933	4.3%
1940	١	•••	•••	•••	•••	•••	121,177	5,361	4.4%
1941	•••	•••	•••	•••	•••	•••	101,957	5,598	5.4%
1942	•••	•••	•••	•••	•••	•••	97,367	5,986	6.1%
1943	•••	•••	•••		•••	•••	100,551	6,139	6.1%

TABLE 39.—CHEST DISEASES UNITS SINCE 1929

- Set tills	-			neger and an area		1		1		
	Yes	A.F		Chest Dis Dispense		In Patient Departments	Sanatoria	T.B. Bone Sanatoria	Preventoria	Settlement for Conva- lescents
1929		•••	•••	2		-	-	-	_	<u></u>
<b>1930</b>	à	•••	•••	3	_	-	_	_	_	
1931	4.4	•••	•••	3	_	_	_		-	
1932		•••	• • •	3	_	-	Production .	_	_	-
1933	•••	206	•••	4	_	-	- Tables	-	-	_
1934	200	***	~ ·	4	AAROAA	-	1(1)	-	<del>-</del>	
1935	•••	•••	•••	5	_	_	1	_	_	
1936	•••	•••	•••	6		-	ì	$1(^{\flat})$	_	_
1937	•••	***	•••	8	_	-	1	1	-	
1938	•••	•••		12		2	2	1	ı	
1939	•••	•••	•••	13		2	2	1	1	_
1940	***	•**	•••	14	_	4	2	1	4	_
1941	•••	•••	•••	14	1	4	2	1	4	
1942	•••	•••		15	3	6	2	2	4	- magnitus
1943	•••	•••	•••	15	3	6	2	2	4	1

N.B.—(1) Found Sanatorium, Helwan, was attached to Ch st Diseases Section in September 1934.

(2) Maritime Sanatorium, Alexandria, was attached to Chest Diseases Section in September 1936.



	1 -		-										/No-	7 T D	Car	49 :	the			m - 0 1		Ta C		2 63 14 2	
	ring 80	(Luspensary)	—— Т.В.	Case	80%	-						100	Group		. Cas			Disp	9118-1	ry) (			atient		1.tted
	seek	- Lag	1		Diseases							Age	Grou	ha		!					1	Pro	zensio 1	ns i	1
	New Cases seeking	1	10081	Sputum+	Kay+	Ye.	.9	Fro 10- Yea	19	Fro 20-2 Yea	29	30	om -39 ars	Fro 40- Yes	49	From 50- Yes			ver Yea	Vandore	Sionna	Officials	Peasants	Students	Occupation
٠	E	-			Other	М.	F.	М.	F.	М.	F.	М.	F	M.	F.	М.	F.	М.	- F.		-   -		- B	St	No O
	10 · 8 7 · 9 3 · 8 4 · 3 6 · 6 7 · 2 4 · 2 5 · 8 3 · 1 1 · 2	88 8 05 7 52 4 40 2 70 3 47 2 45 1 85 3 77 6 43 5 02 2 66 2 72 1	70   8 222   4 76   3 99   2 24   2 30   1 54   1 54   2 38   4 90   3 18   3 18   1 18   8 5	536   3 443   2 300   1 235   2 44   1 73   1 05   2 10   2 10   2 10   2 10   4 10   4 10	207- 867 314- 735 279- 778 279- 778 279- 778 279- 742 49- 369 57- 43 98- 603 230- 665 8- 345 47- 563 30- 298 21- 94	1 8 2 19 6 6 6 1 1 6 5 0 2 1 3 1 4 4 9 27 3 32 9 — 2 6 — 7 — — — — — — — — — — — — — — — — —	9 5 16 6 6 2 4 4 4 10 29 2 8 1	81 80 107 38 20 21 28 19 50 66 49 16 15 7 4	49 50 59 27 13 12 19 6 14 53 61 9 17	178 242 187 123 70 98 63 31 104 200 132 51 34 35 27	80 103 82 46 30 35 26 21 45 51 57 18 22 17	161 164 108 95 68 65 34 26 60 99 93 49 41 32 24	29 29 22 17 21 36 45 31 35 38 9	67 67 40 53 42 29 13 12 31 50 38 22 8 19 6	26 38 21 17 6 15 4 5 7 14 19 10 18 6 4	27 22 22 17 13 9 10 7 10 14 21 4 5 12 1	9 5 10 4 - 1 3 2 1 3 5 4 10 2 1	3 1 1 1 1 7 2 5 3 —		1 2 2 1 1 2 2 1 1 3	28 7 9 12 2	77 20 14 1 30 6 7 9 22 61 29 11 1 9 13 10	24 10	9 25 1 21 19 12 5 9 6 6 1 6 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 276 2 261 2 163 2 163 3 102 5 95 4 70 5 108 210 80 80 82
TOTAL	8	_ 35	_  - 11	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$															- 5	4 30	1 -	20 197	3 110	110	2163
	6		44	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																	1 -	_ _	$\begin{bmatrix} 2 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \end{bmatrix}$	$\begin{vmatrix} 2 \\ \end{vmatrix}$	-
(T) = 11 = 1			86 613 273 11 33 32 104 80 269 99 138 56 37 13 19 13 3 1																	30 3: 80 30					
TOTAL			-	3   1413   560   31   46   48   251   189   599   228   303   129   99   33   44   24														10		1 8	88 2	10 6	7 224	153	203
	Exa	m. of	(Sai	nat).	-	Old	Cases	1 (Dis	3 <b>p.</b> )		- Vis	its (1	Disp.)		1			Dis :b	urge	d Pa	rten	ts			
						œ.	ation			Diseases	8	3	on		6							Ab	lity 1	o Wo	rk
	Teeth	Nose	Throat	Ears	Total	T.B. Cases	Under Observation		Contacts	Other Chest D	Nurses Visits		M.O. Visits	Total	Pos	Z Discharge	Improved		Stationary	Worse	Died	Complete	Partial		Un a ble
					11.115 9.509 8,826 3.410 7.914 17.068 8.906 6.039 6.845 11.096 7.079 3.981 3.186 3.203 1,882	2 • 26:	70 1,3 48 2.77 55 7.22 1,9 4 1 1 56 4 1	68 110 444 98 71 1 89 222 87 63 116 79 61 84 70	148 806 951 33 361 061 390 99 321 588 183 630 105 169 84	2·35 1,65 37 28 1·13	5 1 1 1 1 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 1 2 2 1	453 666 796 458 805 206 535 542 184 011 213 473 560 234 378	366 372 340 356 327 325 406 248 358 354 412 388 394 403	2 31 28 15 10 5 5 5 6 5 7 10 5 5 5 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10	4 1 1 0 7 1 1 8 1 3 9 3 5 1 5 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	05 1. 77 52 27 9 14 19 35 15 29	53   1 58   1 80   1 45   31   1 12   9 30   52	30 81 55, 113 64 35 13 19 36 57 139 21 33 8	24 44 62 24 22 18 7 10 14 26 8 10 4	105 79 43 15 12 3 2 14 3 17 23 6 10	3 2 3 3 - 5 7		1	123 163 146 72 47 23 13 19 41 44 81 19 25 7	130 137 108 79 46 33 5 14 8 42 104 15 15 6
TOTAL					110039			- -	-929	26.43	-,	514	5·559	1.70	9 8	45 8	03 1	004	273	333	34	1	37	8:6	742
					325 315 863	159	3	3 61 02 —	24 31	23 7 61	1 -	44		3 -	5 -	2 -	3	_					-	3	_ 2
	1017	?15 660	372 660			-		_		_	-	_		1.07		05 4 32 4			185 172	162 86					346
TOTAL	187	875	1032	833	_	_	-				-	-	_	1.91	71.0	37 8	80 1.	140	357	218	17		-	025	693
	Num Num	ber o	f pat f pat urati	ients ients on of	on 1st admitte dischar stay . on Dec	d duri	ng the	he yea	r	. 110 . 107	14 07 71 14	Abb: 41 89 84 178	0 7 6 9	Mans 2 7 6: 150	0 3 8	11	azig 18 59 58 5		32 109 107 89	ta I	Fayo 19 34 34 169	1	Canta 20 £2 54 132	Assir 51 36 108	

/ISPENS	SAIVIII	3 00	101110	1111																
to Sana	atoriu:	n)				Nev	v Con (D sp		ıtion			Sputum	Exam	ination			X-R	ey Exa	minat	ion
(Dis	p.)	Cla	3868 (	Sanat	t.)			on l	Observation sp.)	Sis	putum					λ <sub>2</sub>			Old	Patients
Cases recorded for Sanat.	Cases admitted to Sanat.	lot	2nd	3rd Privileged	.3rd Gratis	Children	Adults	T.B. Contacts	Cases under Observed (Disp.)	Hæmoptysis	Total of Sput	Sputu New		Sputu Old (	1	Total of X-Ray	New No.	Cases Pos.	Pos.	Under Observ.
423 457 386 284 1 9 203 75 70 131 182 386 34 51 35 21	31- 22- 177- 9- 14- 3- 5- 6- 12- 12- 3- 4- 1-66-	0 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	57	156 136 286	880	419 35) 443 171 245 152 117 93 125 562 267 129 83 *106 13 	421 443 324 301 290 125 138 101 618 322 161 80 114 36 3962	15 23 30 32 17 11 4 2 14 42 4 7 9 3 1 245	150 88 111 104 157 52 32 105 51 124 51 40 98 55 1.218	40 163 54 70 40 15 - 2 4 29 47 5 8 - - 2 23 433 655	1 · 160 427 589 607 1 · 998 1 · 240 558 776 748 324 	1 · 289 1 · 211 667 577 675 327 374 468 879 827 347 469 508 210 10 · 7 · 2 1 · 107 896	173 105 297 440 360 210 184 156 64 4·322 9 27 31 800 613	165 385 439 474 485 100 215 139 1.119 413 211 307 240 114 5.069 5 5 5 5 8	1.848 -3 10 1.552 1.424	111 -30 -818 901	351 446 113 238 177 226 156 437 703 426 58 290 183 55 4 · 149	184 329 64 171 103 186 154 354 638 29 38 230 60 40 2.982 111 183 601	18 16 56 25 78 20 13 20 2 108 23 18 13 4 	2 — 1 — 2 — 20 — 32 — 3 — 2 — 3 — 2 — 3 — 2 — 3 — 1 — 1 — 2 — 128 — 11 — — 4 — 2 — 17 — — — — — — — — — — — — — — — — —
T	reatme	ent								Opera	tions					_				
Tuberculine	Gold Other Injections		General Treatment.	Aspiration		umo	leural athora		Phrenic Operations	Pneur	Refills	Plombage Olcothorax	Thoracoplasty	Plearal Lung	Bronchoscopy or Bronchosrarchy	No. of Deaths	No. of patients	1	REM2	ARKS
	29 3	14 6 16 — — — — — — — — — — — — — — — — —	33 	13 5 15 15 18 13 18 13 18 18 18 18 18 18 18 18 18 18 18 18 18		1 15 26 51 2 5 27 3 76 14 10 	3 1·0 9 2·2 6 2 1 1 1 14·2 	76	99 104			5	1		12 -	237 129 249 73 58 22 60 34 68 184 93 82 36 45 17	8 - 2 4 4 4 - 11 1 1 1 1 4 - 8 - 43 5 5 1		el Karana Brana Brana Brana Sana	och.

											*									
									Resu	1+ of							New	Сип	DREN	
							childr dence	- 1	manto	ux test		Deta	ils of	theu	r rela	tive	Patier	nts		
		ged							in the	child		Cond	ition			R	elatio	n	_	
	Died	Discharged	Other diseases	Skin	Ophthalmic	Chest	Intestinal	Stomach	+		Les		Alive	Died	Other relative	Sister	Brother	Mother	Father	
			0		120									-	0					
Zeltoun Preventorium	16	88	32	12	<b>2</b> 9	7	18	31	31	14	38	65	96	7	3	_	7	47	46	
Marg **	** £	74	11	50	2				11		9	14	35	26	_	_	4	19	40	
Mehalla El Kobra Prevent.	1	21	5	8	-	2	1		41	p=00000	_	_	38	3	1	_	3	12	25	
Assint Prevent		32	87	35	-	1	54	3	8	4	8	9	11	3	4	_		8	6	
,	200-200-2	-	-													-		-		
Total	17	218	135	105	31	10	73	34	91	18	55	88	180	39	8	-	11	86	117	

			Zeitoun	Marg	Mehalla Et Kobra	Assiut
B.—No. of	Childre	n on January 1; 1943	82	30	21	34
39	89	admitted during the year	103	80	41	35
99	93	discharged ,, ,,	104	74	24	82
P>	**	remaining on Dec. 31, 1913	81	45	38	37

TABLE No. 42-Annual Return of Cases Treated in Alexandria Maritime Sanatorium

			<i>(</i>		~		טט'	T- J'A	TIEN	T SE	CTION								Aut-19	
				New P	atients							Old 1	Patier	nts		Treat	ment			
	Under	5 years	5–10	years	Over 1	0 <b>ye</b> ars		Gring.	and joints	diseases	[8]	ets	Spine	and joints	diseases	ricity	Violet	Operations	Dressings	X.Rays
Total	М.	F.	M.	F.	М.	F.	Rickets	TR S	T.B. bones	Other d	Total	Rickets	T.B. S	T.B. bones	Other dis	By Electricity	By Ultra	Minor 0	Dre	X]
	1.5	1.02 1.1	: r		Ann.				Н					-						
298	37	44	24	28	81	84	26	÷ 2	63	177	249	<b>3</b> 2	37	61	119	10	151	66	171	90
271	8	11	26	8	122	96	-	67	8;	129	81	-	33	34	14	_	_	-	_	-
569	45	55	50	36	203	180	26	39	1 17	306	330	32	20	95	133	10	151	66	171	90

				Alexandria	Helwan
fumber	of	patients	on January 1, 1913	65	
0.9	80	0.9	admitted during the year	120	220
89	88	99	discharged during the year	108	122
880	99	99	remaining on Dec. 31, 1943	79	98

 Admitte	ED														-	n		-	a tos de	A . 44				===
										AGES	3													de
Above 1	0 years	10 3	years	9 5	ears	8 y	pars	7 y	ears	6 y	eire	5 y	ears	4 y	ears	3 у	ears	2 y	ears	1 y	ear	Une one	ter	ohildren
																					, , .			пои
F.	M.	F.	М.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M·	F.	М.	F.	M.	F.	M.	F.	M.	No. of
																								Z
_		_	_		_		2	2	1	7	7	11	5	3	10	5	3	10	3	3	3	19	8	103
_	2	5	10	5	4	7	Б	12	18	4	1	1	1	1		2	1	2	Straight.	1	77****	2		80
1	1	_	1	3	2	3	_	1	2	5	4	2	2	2	1	1		4	_	3	1		2	41
-		_	2	1		_	_	3	3	_	_	5	5	1	-		2	4	2	_	1	3	3	35
															_		-							
1	3	5	13	9	6	10	**	18	24	16	13	19	13	3	11	8	6	20	5	7	5	24	14	259

AND PRINCESS KHADIGA ABBAS HALIM HOSPITAL FOR BONE DISEASES AT HELWAN DURING THE YEAR 1943.

										I	n-Pat	TIENT	SECT	ion .								14.2
				N	lew P	atien	ts						Di	schar	g cd		Tren	tment				
al	Une 5 ye		5- yes			ver yeara	Spine	Hip	Knee	e joints	diseases	al	pa	bed	nary	in plaster	Electricity	Violet	Operations	Plaster	Rays	
Total	М.	F.	М.	F.	м.	F.	T.B. S	T.B.	T.B. 1	TB. othe	Other di	Total	Cured	Im, roved	Stationary	Discharged in	By Elec	By Ultra	Major	Р	X.	
											verdadis.		-	Applican 1 Mg	-				-	===		
120	10	13	14	12	43	28	38	22	20	22	18	106	17	59	18	12	-	47	20	93	191	Alexandria Mari- time Sanat.
220	4	2	25	12	110	67	63	2!	24	30	79	122	42	29	40	11		83	19	126	<b>3</b> 43	Princess Khadiga Abbas Halim Hosp. for Bone discases
310	14	15	39	24	153	95	101	46	44	52	97	228	59	<b>E88</b>	58	23		130	39	219	534	at Helwan

## Chapter VII.—VENEREAL AND SKIN DISEASES

According to Table No. 47, a total of £04,511 persons attended the venereal and skin diseases all nice during the year 1943 and were found suffering from one or the other of these diseases, as compared with 168,074 in 1942.

The number of visits paid by patients to clinics this year was 739.376 as against 548,545 in 1942.

#### Gonorrhoea:

The number of gonorrhoea cases treated during this year was 24,891 as against 30,702 in 1942.

It is worthy of mention that chronic gorotrhaea is more prevalent among women than men and is most probably due to neglect of treatment.

### Syphilis:—

A total of 16.914 cases of syphilis was recorded during the year as against 15,147 in 1942.

### Other Venereal Discases :-

There were 76,695 persons under treatment from other venereal diseases during the year as against 119,847 in the previous year.

### Attendance in Clinics :-

It is observed that the number of patients who absent themselves before complete recovery is on the rise. It is hoped that with more active propaganda and persuasion of the patients to complete treatment this absenteeism will decline.

### Treatment Technique:

At the present time, venereal diseases clinics are being supplied with sulphonamide preparations, Sulphathiazol and Sulphadiazol for the treatment of gonorrhoea. It is proposed to introduce penicillin in the treatment of gonorrhoea, syphilis and other skin diseases.

TABLE No. 43.—TREATMENT DURING
THE LAST FIVE YEARS

		Ye	ar				No. of Clinics	New Patients	No. of Visits
1939	• •	••	•••	• • •	• • •	• • •	20	143,660	907,996
1940	• •	• •	• • •		* * *	• • •	23	145,801	622,220
1941		••	• • •				23	148,194	636,503
1942		••	• • •	• • •		• • •	25	168,074	548,545
1943		••	* * *	• • •	•••	•••	28	204,511	739,376

TABLE No. 44. NUMBER OF BEDS DURING THE YEAR 1943.

Hospital	No. of beds
Hod-el-Marsord	285 209
TOTAL	494

TABLE No. 45.—DISTRIBUTION OF BEDS

Hospital	lst Class	2nd Class	3rd Class Spec.	3rd Class Ora.	Children	Opth. Branch	Total Beds for Patients	Beds for Staff	Total No of Beds
Hod-el-Mar-				222					
soud		Mad No. start 19	14	263	MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND		277	8	285
El-Kabbary	47.444.44	District of the Control of the Contr	20	183		#Pfelials to call	203	6	209
Total			34	446	_		480	14	494

TABLE NO. 46—Number of IN & OUT PATIENTS TREATED AND VISITS TO HOSPITALS DURING THE YEAR 1943.

Hospital	In Patients	Out patients	No. of visits
Hod-el-Margoud El-Kalbary	3,312 1,936	3,912 743	$14,636 \\ 2,482$
TOTAL	5,248	4,653	17,118

TABLE NO. 47.- SHOWING THE NUMBER OF NEW CASES AND VISITS TO THE SAIN AND VENEREAL DISEASES CLINICS DURING 1943

						হার								
			New Cares	ares					Number of Visits	F Visits			(	
Locality of Clinic		Male			Female			Male			Female		Total	3
	Under 16 years	Over 16 years	Tatal .	Under 18 years	Over 16 years	Total	Under 16 years	Over 16 years	Total	Under 16 years	Over 16 years	Total	New Cases	Old
	1 606		8 108	000 6	R 164	0 984	0 7	96 100	1	1 -		-	1	
q	<b>-</b> ົຕົ		t to	4,635	4,024	8,659	2,992	7, 48	04, 100 10,47±	3,841	36,451 18,00c	21,849	14,282	32,323
Gamaha			3,7.3	173	5,218	5,391	1,304	23,815	22,115	2,410	29,15.	•	9,181	n •
	4,035		6,52	3,908	3,069	6,977	3,09.	12,384	15,478	3,542	13,640	17,183	•	32,661
	<u></u>		4,2,9	2,943	6,768	9,711	3,412	5, 98	9,210	5,75	1,420	17,173	13,980	26,383
Damanhour			0,409		3,391	8,516	6,214	7,428	•	8,805	16,448	25, 253	13,9.5	
Tanta	1,490	2,000	4,135	1,011	1,929	3,440 1 703	1 791	2,3/6	9,038	1705	9,616	10,587	7,623	19,685
Mahalla el Kobra			3,03	1.270	2,353	3,623	1,121	7.80	8,998	3,693	18 494	92,032	4, 202	31 088
			2,672	2,774	1,304	4,078	2,648	2,30	4,988	3,80°C	4,06	7,868	6,75	
	C/1		4,638	19	1,5.7	1,556	2,682	14,101	16,783	3,041	6,497	9,58	6,244	26,321
			3,621	~	3,00	4,867	2,(47	6,142	Ph.	4,4 0	13,320	17,760	8,488	25,949
Fayoum	Τ,		2,775	1,02, c	1,092	2,746	1,309	5, (0	•	1,69	0	7, 690		13,499
Senn uris	9 613		4 6:2	9 368	1,040	4, 142 3, 20,1	163	2,10± 8,690	2,939	2,5/3	3,793	6,366	6,130	19,361
	1,939	2,318	4,317	2,142	1,362	3,504	~ ~	13,345	14,941	1,706	5,300	7,006	2	21,132
	18	439	45	16	399	415	112	3,819	3,931	883	4,621	4,709	87_	<sup>`</sup> ထ
	1,9 5	2,646	4,631	2,711	2,400	5,111	1,469	3,820	5,28	1,753	n	5,986	9,742	11,275
			1, 54	1,041	~	2,463	444	842	1,286	431	1,178	1,609	4,217	2,895
Souhag genhag	1,'0+	1,00	2,042	0 0	C/S	1,010 R 776	047	3,30	3,94		2,895	3, 04	4,297	7,512
Vena	40.	587	1,01	4,014	•	1.216	556	3,550	2,841	1,089	4,263	20,352	7,447	8, 19 <b>9</b>
	179	484	663	185	289	474	420	1,289	1.709	555	~	A 6	1,157	3,042
ACWah	421	615	1,0 6	405	594	666	929	•	5,003	786	6,414	7.2 %	2,035	12,203
	506	1,094	2,001	12 12 14	1,000			•	9, 30 t	2	53	•	3,755	9,473
Bey	ر د د	2,990	3,371		2,062	2,378	2,532	75	5,5	2,028		35	5,74	66,640
	1,9 %	7,206	9,204	1,713	4,603			70,785	81.532	•	_	52,276	15,52)	133,808
TOTAL	38,745	56,311	92,026	47,332	62, 123	109,455	69,69	291,559	353, 168	79,368	306,840	3.6,208	204 511	139,376

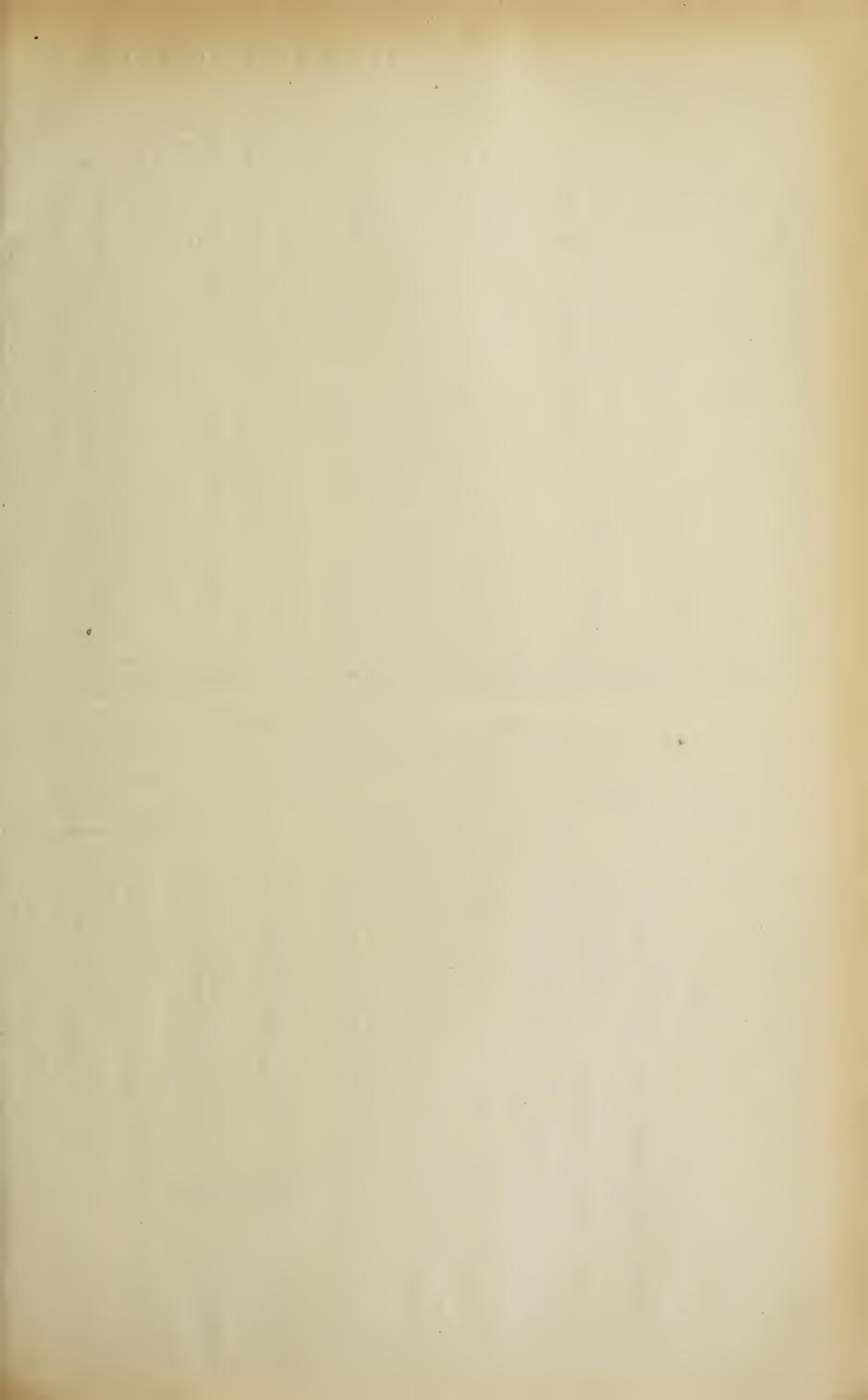


TABLE No. 48.—Showing Number of Venereal Diseases Cases Treated

							1						
				Gor	norrhoea								Syphi-
Clinic		Acı	ıte	Chro	onic	Tot	tal	Prima	iry	Second	lary	Terti	ary
		М.	F.	м.	F.	M.	F.	M.	F.	М.	F.	м.	F.
е													
Sayeda Zinab		759	675	1,195	3,086	1,954	3,761	280	32	203	123	35	21
Sh ubra		240	140	325	1,086	505	1,226	111	13	100	62	5	1
Gamalia		1,339	1,932	506	2,763	1,845	4,695	498	59	171	95	27	16
Port-Said		196	3	16	155	212	158	97	4	73	31	12	4
Suez		122	[	27	485	149	485	47	1	29	10	10	4
Damanhour		. 130	210	22	352	152	5(2	72	2	36	41	29	18
Tanta		211	114	160	334	371	448	355	12	89	49	49	36
M halla el Kobra		175	103	29	98	204	201	89	5	68	51	27	12
Mansoura		244	23	47	1,135	291	1,158	56	14	53	37	22	27
M t-Ghmr		27	17	6	17	33	34	10	4	10	18	2	1
Zagazig		382	34		1	382	35	149	12	71	56	<b>2</b> 2	22
Shebin el Kom		76	52	20	642	96	694	41	9	52	35	<b>2</b> 8	21
Fayoum	•, • •	84	116	32	67	116	183	46	4	270	200	94	162
Senneuris		45	30			45	30	8		20	30	15	36
Beni-Suef	• • •	108	14	16	214	124	228	45	5	58	49	17	9
Minia	• • •	175	1	8	65	183	66	265	6	120	82	9	13
Assiut		179	40	59	54	248	94	1_0	10	170	122	60	43
Girga		36	7	23	30	59		5.8	3	107	174	24	9
Tah a		€		2	11	8	11	6		5	32	36	67
Sonhag		42	1	18	3	61	4	18	3	85	83	35	<b>2</b> 3
Qena		31	12	36		67	62		4	64	44	12	21
Nag' Hammadi		35	17	12	26	47	43			158	167	27	22
Luxor		20	2	21	14	41	16	51	5	<b>3</b> 8	31	17	10
Aswan		4.	14	75	100	120	114	72	5	33	<b>2</b> 1	9	2
Benha		48	4	82	358	130	362			14	10	12	18
M hart m Bey		31'	166	234		551	438		29	<b>2</b> 58	183	134	104
Karm uz		<b>5</b> '.6	329	366	454	912	780	296	99	514	406	178	139
TOTAL		5,619	4,053	3,347	11,872	-8,966	15,915	2,985	340	2,869	2,242	947	801

Table No. 49.—Showing Number of Venereal Diseases Cases Treated

					Pati	ents Com	pleted T	reatmen	t				
Locality of Clinic	G	onorrhoea		5	Syphilis		Oth	ner Disea	ses	Grand		Percentag	е
	м.	F.	Total	M.	F.	Total	M.	F.	Total	Total	Gonor- rhæa	Syphilis	Other Diseases
Sayeda Zeinab S ûbra Gamalia Port-Said Suez Damanhour Tanta M halla el Kobra Mansoura Mit-Ghamr Zagazig Shebin el Kom Fayoum S muris Beni-Suef Minia Assiut Girga Tahta Sorthag Qena Nag' Hammadi Luxor A wan Benha M halam B y	2,502 213 94 27 26 24 121 51 23 7 ——————————————————————————————————	4,5(2 690 1,534 26 143 56 183 14 1(3 6 — — 34 14 67 8 14 8 14 17 — 6 7 196	7,004 9°3 2,479 53 169 80 3(4 65 126 13 — 46 27 113 40 16 48 10 13 4 4 35 - 11 23 468 700	999 14 2.8 3 — 225 6 3 11 7 — 3 2) 6 6 6 — 51 681 — 43 — 43 — 491 695	459 5 140 19 - 107 3 13 12 9 - 3 55 11 7 - 121 1177 - 52 - 1 202 449	1,458 19 428 22 - 332 9 16 23 16 - 6 84 17 13 - 172 1858 - 95 - 1 - 773	3,429 4,574 359 3,71 2,£27 4,137 2,023 1,331 1,390 1,135 35 1,940 603 535 1,941 44 3,980 1,714 649 236 439 786	3,390 7,564 500 10048 4,784 5,932 1,675 1,030 1,367 1,961 37 3,8,0 1,000 1,629 1,130 55 2,830 2,143 526 — 176 404 538	6,819 12138 859 13789 7,311 10069 3,678 2,361 2,757 3,096 72 5,820 1,603 2,164 3,471 99 — 6,810 3,857 1,175 — 412 — 843 1,3°4	5,725	$\begin{array}{c} 45.8 \\ 6.9 \\ 65.8 \\ 4 \\ 2.2 \\ 8 \\ 7 \\ 2 \\ 4.3 \\ 5 \\ - \\ 2.7 \\ 1.2 \\ 3.1 \\ 26.3 \\ 100 \\ 6 \\ 2 \\ 1 \\ 100 \\ 27 \\ - \\ 91.6 \\ 2.7 \\ 18 \\ \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Diseases  44·7 93 22·9 99·4 97·8 99·2 85·3 97 95·2 98.8 81·8 100 96·8 95·2 96·4 65·2 — 96·9 67·4 99 — 100 — 97·3 51 79
Kum uz			12,750		2,935	6.486	41.703	55,793	97,496				
TOTAL	4,809	7,341	12,100	0,001		, -, -	, , ,		-,			-	

	lis										Other	Diseases		
	Lat	ent	Hered	litary	Nerv	rous	Tot	al	Chan	croid	Other V Disea		Tot	al
	М.	F.	М.	F.	м.	F.	M.	F.	M.	F.	М.	F.	M.	F.
\$ P	101 48 95 80 21 10 43 77 32 32 16	185 58 162 85 42 49 62 92 145 85	34 27 48 16 2 9 17 37 16 53 4	28 35 80 26 6 6 25 23 15 34 5	2 2 - - - 2 - 2	1 - - - 2 - -	655 293 839 278 109 156 553 300 179 107 264	389 170 412 150 63 116 184 185 238 142 164	162 28 294 58 8 53 16 - 244 -	59 16 1 - 5 - 28 - 2	726 693 2 6,014 11 5,048 — 1,905 2,336 — 4,042	3,944 1,388 — 6,668 7 7,833 — 1,407 2,199 — 3,323	3,888 721 296 6,072 19 5,101 16 1,905 2,580 - 4,137	4,003 1,388 16 6,669 7 7,838 — 1,407 2,227 — 3,330
	28 18	185 2 <b>9</b>	97 5	5 <b>4</b> 6			246 433	30 <b>4</b> 341	2	1	3,277	3,868	3,279	2,369
	17 33 13 <b>3</b>	13 23 65 368	12 7 <b>35</b> 58	27 12 30 84	3 4 —	1 1 -	55 147 466 531	106 $104$ $197$ $627$	 62 53 	6	702 —	30 — 263 —	 62 755	30 6 263
	134 7	1 543 24	16 36 51	26 130 39 61	$-\frac{3}{7}$		$205 \\ 217 \\ 199 \\ 252$	$egin{array}{c} 213 \\ 772 \\ 173 \\ 352 \\ \end{array}$	_ _ _ 2	Million Annual Control	893 —	2,316		2,316 —
	61 45 7	216 152 19	42 3 24	3 <b>7</b>	1		$ \begin{array}{c c} 252 \\ 272 \\ 137 \end{array} $	$\begin{array}{c} 3.72 \\ 358 \\ 76 \end{array}$	12	16	309	432 —	309 12	432 16
	56 27	89 71	31 21	39 18	5	1 1	20 <b>6</b> 87	157 118	$-\frac{1}{15}$		$\begin{bmatrix} - \\ 362 \\ 302 \end{bmatrix}$	42 <b>9</b> 411	$ \begin{array}{c} 1\\362\\317 \end{array} $	429 412
	376 157	247 146	32 48	25 39	82	34 54	837 1,275	622 883	2/2 341	34 90	115 5,783	779 $3,326$	357 6,124	813 4,016
	1,554	3,210	781	921	162	102	9,298	7,616	1,683	259	35,520	39,228	37.208	39.487

AT THE SKIN AND VENEREAL DISEASES CLINICS DURING 1943

												•	
1				Patients wh	o Ceased to	attend be	efore Con	apletion o	of their T	reatment			deritanique de la constitución d
	(	Gonorrhæa			Syphilis		Otl	her Disea	ises	Grand	Pe	rcentage	
	м.	F.	Total	м.	F.	Total	м.	F.	Total	Total	G.	Syphilis	Other Dis.
	<b>3,182</b> 78	5,435 179	8, <b>61</b> 7	1,593	1,000	2,5 <b>9</b> 3 57	1,5 <b>2</b> 3	1,977 1.0	3,500 240	15,110 554	57	17.2	25.8
	524	1(29	1.553	529	249	777	120	1. 0	121	2, 51	46.4 63.4	10.2 31.6	43.4
	164	129	293	<b>2</b> 55	115	370		10,133	13,905	14, 68	2.2	2.8	9 <b>5</b> .5
	25	53	78	28	15	43	896	1,409	2,505	2, 26	3.2	1.5	95.3
	87	425	512 515	1 <b>2</b> 0 3 <b>2</b> 3	108 77	<b>2</b> 28	711	1,601	2,312	3,052	16.7	7.5	75.8
	250 28	$\begin{array}{c c} 265 \\ 20 \end{array}$	48	36	12	405 48	821	841	1,662	2,182	19.9	15.6	64.5
	27 <b>3</b>	1055	1.328	181	303	<b>4</b> 84	296	229	525	9 2,337	$5.0 \\ 55.9$	50 21	23.1
	19	16	35	15	4	63	824	T,100	1,90	2,028	1.6	$\frac{21}{3.1}$	95.3
	269	30	<b>2</b> 99	227	123	353	4,007	3,291	7,298	7,950	3.8	4.3	91.9
	77	543	620	193	251	444				1,064	5.8	<b>4</b> 2	
	87	2 <b>2</b> 5	312	412	388	800	100	1,381	1,481	2,593	1.2	31	57
	32	16	48 146	269 96	725 44	<b>9</b> 94	287	245	1	1,574	3.2	63.1	33.7
	<b>5</b> 8	88 <b>22</b>	164	340	26	140 376	1.117 $23$	ε <b>4</b> 0 20	1 /	2,243	6.5	6.3	87.2
	142 13	5	18	192	<b>2</b> 23	415	20	20	43	583 <b>433</b>	$\begin{array}{c} 2.8 \\ 4.3 \end{array}$	64 95.7	8
	<b>2</b> 5	22	47	45	55	100	159	207	365	512	9.2	99.7 1 <b>9</b> .5	71.3
	6	3	9	<b>4</b> 25	635	1061	153	165		1,387	6	76 4	23
	49	3	52	124	119	243	1,718		2,685	2,980	$\frac{1}{2}$	8	90
	70	45	115	173	324	497	3	11	14	626	18.3	79.5	2.2
	2		2	249	365	614				616	3	99.7	
	15	$\frac{2}{co}$	$\begin{array}{c} 17 \\ 133 \end{array}$	40 135	32 115	72 <b>25</b> 0	65	18	83	172	10	41.7	48 3
	73	$\begin{bmatrix} 60 \\ 52 \end{bmatrix}$	133 128		101	250 150	1	412	1,117	383	34.7	65.3	
	76 27 <b>9</b>	242	521	598	364	962	364		605	1,5 <b>95</b> 2,038	$9.2 \\ 2.9$	$\frac{10.7}{46}$	80 1 29
	514	478	992		524	14.15	1,600		22.720	5,000	19.3	28.1	52.6
	6,417	10,442	16,859	7,611	6,372	13,983	19,781		46,118				

Table No. 50.—Showing Hospitals and Patients treated therein during the Year 1943

			In-Pat	tients			Out-P	atients
Hospitals	Treated during the	Di	ischa <b>r</b> ged du	iring the ye	ea <b>r</b>	Domaining	New Cases	No. of
	year	Cured	Relieved	Not imp.	Died	Kemaining	New Cases	Visits
Hod- l-Marsoud El-Kabbary	3,312 2,016	1,443 1,922	1,576			293 94	450 743	14,936 2,482
Total	5,328	3,365	1,576			387	1,193	17,118

Table No. 51.—Number of In-fatients treated & number of deaths during the year 1943

Hospital	No. of In patients	No. of deaths	Percentage
Hod-el-Marsoud El-Kalbary	3,312 2,016		. –
TOTAL	5,328		_

## Chapter VIII.—MENTAL DISEASES

### Accommodation.

The number of bedding stood where it was viz 3334 beds.

### Patients.

The average daily number resident was 3962 and the number remaining on 31 December 1943, was 4020.

## Lunacy Act.

Provisions of this Act were given a final revision and it is hoped it will be laid before Parliament in its session of 1943-1944.

### Admissions.

The number of patients remaining in mental hospitals on January 1, 1943 was 3939. During the year 1943, admissions numbered 2275, thus the total number of cases treated was 6214. Discharges numbered 1553 and deaths 641; those remaining on December 31, 1943 were 4020.

#### Accused Lunatics.

180 accused persons sent from the Procurer General were examined during the year under report; also 35 reports were made on inmates originally admitted as ordinary patients; this brings the total number of reports sent to 215. The number of accused persons in residence at the end of 1943 was 883.

### Discharges.

The number of cases discharged was, 82 recovered, 1052 relieved, 376 not improved and 32 not insane.

## Pellagra.

The number of pellagrous admissions was 689 patients of whom 177 were females and 512 males as against 608 in 1942.

#### Treatment.

- (1) The Wassermann reaction was carried out in the Central Laboratories of the Ministry. Specimens of cerebro-spinal fluid were also taken from patients where this was required.
  - (2) 24 cases were treated in the out-patients clinic.
- (3) A great number of patients were treated in the Dentistry and Ophthalmic Departments.
  - (4) The number of cases treated locally from physical ailments amounted to 17181.
- (5) The Chest Diseases Division of the Ministry examined such patients and staff of Abbassia Hospital as were suspected of pulmonary tuberculosis. A similar survey will be made on Khanka patients and appropriate measures will be taken according to results.

## Electric Shock Apparatus.

The Abbassia Hospital was supplied with an apparatus for shocktherapy. It was employed after training the M.O's., in its use.

### Accidents.

31 major accidents occurred in both hospitals. Minor accidents numbered 1378. A male patient of Abbassia Hospital succeeded in committing suicide by hanging himself in a side room.

#### Escapes.

Eleven patients escaped from both hospitals, 6 from Khanka and 5 from Abbassia.

### Lectures.

Lectures were delivered to the nursing staff of both hospitals as well as to senior students of the Faculty of Medicine of Fouad 1. University. Other lectures on Psychological Medicine and Neurology were delivered to medical officers attending the post graduate course in Psychological Medicine and Neurology.

## Chapter IX.—HEALTH PROPAGANDA

The following is a summary of the Propaganda work done during the year:

- I.—A new medium of propaganda was introduced during this typhus season which consisted of a huge model louse mounted on a Propagar da vehicle. This was accompanied by a most interesting simple dialogue on the evils of the louse.
- II.—Propaganda work was extended to Alexandria where health propaganda meetings were held for the benefit of the various classes of the population,
- III.—A good deal of health propaganda work was done among the pupils of compulsory schools where lectures on hygiene were given.
- IV.—Propaganda Units contributed to the instruction of the villagers by utilising public playgrounds in rural towns for holding monthly health propaganda meetings.
- V.—In response to the request of various societies and corporations, the Propaganda Units held meetings for their members, e.g. the Combined Transport Club, Alexandria, and the Salt and Soda Company at Wadi el Natroun.
- VI.—These Units also took an active part in the campaign against malaria. Health propaganda was undertaken in all towns throughout the country and in villages, too.
  - VII.—In addition to the above, the units continued last year's activities, namely:—
  - (1) Holding meetings in Cairo public parks during summer, where educational as well as health instructional films were shown.
  - (2) Cinema shows for workmen of certain corporations.
  - (3) Display of educational films for the pupils of primary and secondary schools and of El-Azhar University.
  - (4) Health propaganda meetings for men of the territorial army and Police Forces.
  - (5) Propaganda meetings on temperance in chief towns of provinces and Markazes.
  - (6) Special meetings in orphanages, social centres and charitable institutions.
  - (7) Propaganda meetings in sanatoria, hospitals and child welfare centres.
  - (8) Broadcasts on health problems.

TABLE NO. 52.—STATEMENT REGARDING THE PROPAGANDA WORK ACHIEVED DURING THE YEAR

	No.	No. of spectators
1. Lectures broadcasted	16	
2. Meetings in public parks	52	75,000
3. Meetings in religious fairs	25	60,000
4. Festivals and anniversaries	51	30,000
5. Entertainments in schools	23	90,000
6. ,, orphanages	18	7,000
7. ,, El Azhar	11	5,000
8. ,, for Army forces	7	2,000
9. ,, Territorial force	8	2,500
10. ,, Police force	5	1,500
11. ,, Labourers	23	10,000
12. Propaganda in day time at Cairo	143	90,000
13. Health propaganca in cinemas	2	1,900
14. Health propaganda, Alexandria, in day-time	26	30,000
15. Health propaganda, Alexandria, at night-time	13	14,000
16. Number of pamphlets distributed	13,100	
17. ,, of plays produced and acted	1	800
18. Anti-malaria propaganda meetings	37	35,000
19. Temperance propaganda meetings	14	15,000
20. Health propaganda in popular quarters	14	13,000
21. ,, various societies and institutions	85	70,000
22. ,, ,, Governorates and cities in the provinces	17	20,000
23. ,, ,, chld we fare centres and hospitals	5	3,000
24. ,, ,, ,, clubs	15	16,000
25. ,, ,, festivals in Sanatoria	18	20,000
26. ,, ,, social centers	81	70,000
27. , advices published in the daily news papers	39	

TABLE No. 53.—WORK DONE BY THE UNITS IN THE PROVINCES.

			No.	No. of spectators
. Villages visited	• • • •		399	
. Patients treated			30,220	Annuarina
Houses visited			58,611	
. Schools visited		• • • • • •	181	4,200
Lectures given at schools			3,720	256,416
6. Villages where evening meetings were held	•••••	• • • • • •	334	
Lectures given during evening meetings	• • • • •	• • • • •	2,411	1,618,100
3. Short lectures given at day-time		• • • • • • • • • • • • • • • • • • • •	2,859	169,459

## Part III.—MEDICAL TREATMENT

## Chapter X.—GENERAL HOSPITALS

### Hospitals.

The number of general hospitals in operation during the year was 81; of these 26 are situated in the Governorates and Chief towns of Provinces, 52 in District chief towns and 3 General Diseases clinics.

#### Accommodation.

The total number of hospital beds this year was 6363, of which 5502 beds are reserved for patients and 861 for personnel.

### Treatment.

In view of the prevailing war time conditions, a proportion of the beds in certain hospitals was reserved to meet emergency demands. The number of in-patients treated during the year was 87,326. The out-patients numbered 1,749,732. These attended the out-patients clinics 3,256,737 times.

## Operations.

A total of 32,110 operations were carried out in the in-patient departments and 71,096 in the out-patient departments, making a total of 103,206 operations performed during the year, as compared with 33,007, 79,024 and 112,031 respectively in the previous year.

### X-Ray Examination and Treatment.

The number of cases examined and treated by X-Ray during the year was 19,605 as against 26.746 in 1942.

#### Deaths.

5,86) deaths were recorded during the year amongst a total of 87,326 in-patients giving a ratio of 6.71 per cent.

Table No. 54.—Showing General Hospitals under General Hospitals Section
Control since 1933

	7	Zear			Hospitals at Capitals of Provinces and Governorates	Hospitals in Chief Towns and Disagets	Village Hospit <b>als</b>	Out-Patient Clinics
1933	•••		•••	• • •	19	44	49	_
1934	•••	•	• • •	• • •	19	<b>4</b> 5	50	1
1935	•••	• • •	• • •	•••	19	45	<b>5</b> 0	, 3
1936	•••	•••	•••	• • •	19	45	50	3
1937	•••	•••	•••	•••	20	<b>4</b> 8	60	3
1938	•••	***	•••	• • •	<b>2</b> 0	<b>4</b> 8	62	3
1939	•••	•••	• • •	•••	20	<b>4</b> 8	62	3
1940	•••	•••	•••	•••	20	51	62	3
1941	•••	• • •	•••	• • •	20	5 <b>2</b>		3
1942	•••	• • •	•••	• • •	20	52	Separated from Hosp. Section	4
1943	•••	•••	•••	•••	26	52	Section	3

TABLE No. 55.—GIVES THE NUMBER OF BEDS IN THE GENERAL HOSPITALS

		Year	17		No. of Beds	Remarks
•	W. P		h.			
1933		•••	•••	•••	6,482	
1934	•••	•••	• • •	,	<b>5,</b> 309	Kasr el Aini Hospital was separated from the Ministry.
935	•••	•••	•••	•••	5,852	
936	•	•••	•••		5,964	
937	•••	•••	•••		6,341	
938	•••	•••	•••	• • •	6,822	
939	•••	•••	•••	•••	6,979	
940	•••	• •, •	• • •		6,926	
941	•••	*1*	•••	•••	6,969	
942	• • •	•••	•••		6,880	
943	• • •	• • •	• • •	•••	6,363	Alexandria Hospital was separated from the Ministry.

Table No. 56.—Shows the Distribution of Beds

King's	Hospi	tal	lst Class	2nd Class	3rd Class Special	3rd Class Ordi- nary	Children	Ophth. Branch	Total beds for patients	Beds for Staff	Total No. of Beds
Kafr el Zayat	King's Demerdash Incurable Diseases, Port-Said Suez Damietta Damanhour Tanta Mansoura Mit Ghamr Zagazig Shebin el Kom Benha Kaliub Fayoum Beni-Suef Minia Fikria Maghagha Assiut Mallawi Sohag Tahta Qena Luxor Esna Aswan Ismailia Delingat Kafr el Dawar Rosetta Shoubrakhit Edfina Kafr el Dawar Rosetta Shoubrakhit Edfina Kafr el Dawar Rosetta Shoubrakhit Edfina Kafr el She.kh Fowa Kafr el She.kh Fowa Kafr el She.kh Fowa Kafr el Zayat	Helwar	Class  - 6 - 2 4 1 2 1	Class	Class Special	Class Ordinary  217 29 118 165 193 87 107 218 192 43 194 88 108 74 144 97 108 22 189 15 94 26 90 50 80 48 46 21 27 28 21 44 29 21 35 114 46 32 26 45 36 34 22 23 28 32 48	97 -13 -2 -10 -12 -6 -11 -11 -10 -10 -11 -11 -11 -11 -11 -11	Branch	beds for patients  226 366 118 194 233 125 111 224 202 56 210 90 114 74 145 97 122 35  204 26 96 26 91 97 109 76 54 33 35 40 31 47 114 54 47 38 45 36 34 40 21 47 114 54 47 38 45 36 34 40 21 47 114 54 47 38 45 36 34 32	for Staff	No. of Beds  307 506 130 208 251 137 122 252 213 62 230 94 121 78 151 102 131 39  222 30 102 28 98 113 122 79 66 41 43 49 42 50 49 24 57 127 61 49 47 56 41 40 35  — 40 50 38

## DISTRIBUTION OF BEDS (contd.)

		Hospi	ital			lst. Class	2nd Class	3rd Class Special	3rd Class Ordi- nary	Children	Ophth.	Total beds for patients	Staff Beds	Total No. of Beds
Seff Ayat Itsa El Wasta Beba Bli Maz Al Fashn Samalout Deirout El Badari Sah I S.I Abutig Akhmim Baliana Girga Dishna Kous Nag Ham Kom Omi Edfou E eiba El Dirr	ar i im adi								25 38 35 25 29 32 23 40 30 23 • 24 20 25 22 28 25 27 12	1	12 16 - 12 12 8 11 - 12 8 8 8 15 12 12 14 - 14 - 14	37 54 35 38 41 40 34 40 42 31 32 38 43 36 32 33 34 42 25 43 12	8 11 6 9 10 5 6 8 10 7 8 9 9 9 9 9 9 7 10 3 5	45 65 41 47 51 45 40 48 52 38 40 47 48 45 41 42 41 52 28 48 12
	To	FAL	•••	•••	 	23	57	12	46,62	39	649	5,502	861	6,363

## Treatment.

The following table shows the number of patients treated in the hospitals.

Table No. 57.

			Year				No. of In-Patients	No. of Out-Patients	No. of attendance to outpatient sections	Patients treated in Village Hospitals	Attendance to Village Hospitals
1939	• • •	•••	•••	•••	•••	•••	131,068	3,275,350	5,907,039	1,239,119	2, <b>705</b> ,883
1940	• • •		*	• • •	• • •	•••	104,475	3,015,066	5, <b>4</b> 35.477	1,175,477	2,671,104
1941	•••	• • •	•••	•••	• • •	• • •	93,029	2, 596, 697	2,142, <b>2</b> 82	Separated f Hospitals	rom General Section
1942	• • •			• • •	• • •	. 4 .	95,587	2,375,913	2,258,883	ar deservinds	monthly
1943	• • •	• • •	• • •		• • •	•••	87,326	1,749,732	3,256,737	, combinator f	al-reference.

TABLE No. 58.—Showing Hospitals and Patients treated therein

								In-Pat	ients			Out-P	atients
	Hos	pital				Treated	Disol	narged de	uring the	year	Re-	New	
						during the year	Cured	Re- lieved	Not improved	Died	maining	Cases	No. of Visits
King's					•••	3,937	2,378	858	410	110	181	82,150	155,714
Demerdash		• • •	• • •	• • •		8,0.8	3,679		412	485	330	141,965	
Ir.curable		ses,	$\mathbf{H}_{0}$	lwan	•••	199	20	5	22	8:	91	2,175	
Port-Said	• • •	• • •	• • •			4,606	2,8_2	1,138		231	179	55,929	
Suez	• • •	• • •	• • •	• • •	• • •	3,329	1,469	,	85	221	112	32,861	55,229
Damietta		• • •	• • •	• • •	• • •	1,771	933	6,3	16	62	67	29,224	59,905
Damanhou Tanta		• • •	• • •	•••	• • •	2,(8) 4,24±	1,3,3 $2,041$	$\frac{497}{1,637}$	$\begin{bmatrix} 20 \\ 78 \end{bmatrix}$	$\begin{array}{c} 179 \\ 361 \end{array}$	$ \begin{array}{c c} 90 \\ 127 \end{array} $	37,870 $32,239$	72,016 $57,137$
Mansoura		• • •		• • •		3,457	$1,2_{-0}$	1,917	50	171	99	51,9.4	79,695
Mit Gham		• • •				1,053	602	250	47	118	36	2,265	44,378
Zagazig	• • •	• • •				4,175	1,846	1,795	160	249	127	39,534	74,796
Shebin el	Kom.		• • •		• • •	1,7,7	785	690	25	140	61	37,514	77,43
Benha	•••	• • •	•••	• • •	• • •	1,397	698	546	$2 \cdot  $	79	46	21,153	32,290
Kaliub		• • •	•••	•••	• • •	$\begin{bmatrix} 641 \\ 2,232 \end{bmatrix}$	305	221 257	3	53	54	16,13	34,825
Fayou <b>m</b> Beni- Suef	•••	• • •	• • •	• • •	• • •	$\begin{bmatrix} 2,232 \\ 1,136 \end{bmatrix}$	1,499 420	357 498	69 10	178 141	$\begin{array}{c c} 129 \\ 67 \end{array}$	36,157 $14,992$	57,773
Minia	•••	••		• • •		1,719	1,252	29	17	66	86	27,988	43,443 49,949
Fikri ı				• • •		583	211	293	5	44	30	27,295	60,580
Maghagha	• • •											22,674	49,331
Assiut						3,745	2,276	920	161	26	125	37,790	72,401
Mallawi	• • •	• •	• • •	• • •	• • •	393	336	(		44	7	29,7.54	54,192
Sohag	• • •	• • •	•••	• • •	• • •	1,247	796	231	56	91	73	20,293	37,800
Tahta	•••	• • •	• • •	• • •	• • •	63 ა 856	498 368	360	20	106	27	20,687	36,125
Qena Luxor	•••	• •	• • •	• • •	* * * *	668	383	$\begin{array}{c} 300 \\ 177 \end{array}$	36 19	60 60	32 29	30,743	46,100
Esna		• • •	• • •	•••	• • •	852	716	62		54	20	18,085 $23,696$	43,025 37,516
Aswan		• •				<b>78</b> ੪	479	227	7	47	29	21,973	41,488
Ismailia	• • • •	• • •				1,947	1,452	262	2	155	76	53, 1 - 3	71,158
Delingat	• • • •	• • •	• • •	• • •	• • •	476	210	224	Mark Accorded	21	21	10,407	26,169
Kafr el Da		• • •	• • •	• • •	• • •	971	421	4.9	11	69	31	11,839	23,943
Rosetta		• • •	• • •	• • •	• • •	468 367	277	130	. 8	58	15	11,356	22,023
Shubrakhit Edfina		• •	• • •	• • •	• • •	574	133 202	$\begin{array}{c} 196 \\ 306 \end{array}$	14 25	15	15	10,437	24,202
Koni Ham		• • •	• • •			315	205	53	4	$\begin{array}{c} 18 \\ 35 \end{array}$	23	9,581	16,15
El Mahmo		• • •	• • •	• • •		2 8	121	59	9	4	15	6,250 $10,970$	18,928 $22,142$
Dessouk						1,682	802	144	22	78	36	20,933	50,469
Mehalla el		ra	• • •	• • •	• • •	2,429	1,183	1028	9	144	95	65,587	114,909
Samannoue	d .	• • •	• • •	• • •	• • •	651	3.10	242	2	26	41	12,500	28,915
Tayeba		• • •	• • •		• • •	853 751	379	372	38	38	26	21,042	44,619
Sherbin Zıfta		• • •	* * *	• • •	* * *	559	578 <b>2</b> 74	$\begin{array}{c c} 12.3 \\ 170 \end{array}$		21	29	المدوالة	33,189
Kafr el Sh		•••	• • •		• • •	786	323	352	63 70	24 39	28 22	10,000	41,693
Fowa		• • •	•••	•••	• • •	<b>3</b> 66	242	96	8	5	15	40,102	43,954
Kafr el Za		•••	•••	***	•••	305	102	99	177	$\begin{vmatrix} 0 \\ 2 \end{vmatrix}$	8	LU TUU:	26,942
Abshit	• • •	• • •	• • •	•••	• • •				_			±∪∪ 11,∪∪∪	23,943 $4,620$
Faraskour		• • •	• • •	• • •	• • •	669	459	145	9	28	28	70, 910	31,390
Simbellawi Manzala		• • •	• • •	• • •	•••	580 556	489	17	-	48	26	14,100	19,853
Manzala		• • •	• • •		• • •	537	$\begin{array}{c} 361 \\ 353 \end{array}$	127 $57$		44	24	10,001	35,158
Aga Dekernes		• • •	• • •	• • •	•••	966	497	381	42 6	51 58	$\begin{bmatrix} 37 \\ 24 \end{bmatrix}$	<b>১,০</b> ±০	18,833
Belbeis		• • • •	;:•	• • •	•••	<b>45</b> 8	340	74	1	31	12	-U, 104	31,305
Faqus		• • •	• • •		• • •	421	219	130	6	<b>5</b> 2	14	11,110	32,582
Minia el E	Kamh.		• • •	• • •		478	238	192	3	28	17	14,000	19,380 23,338
Zawamel	• • •	• • •	• • •	• • •		55	46	2	Speciment,	3	4	#\O\\# #\O\\	
Tala	• • •	• • •	• • •	• • •	•••	559	,		3	31	18	77,000	19,839
Ashmoun Menouf	• • •	• • •	•••	• • •	• • •	703 903	418 613			55	26	אַעער, בּ	18,062
Zawyet el		ura	• • •	• • •		517	163	$\begin{array}{c} 138 \\ 294 \end{array}$	28 5	88	36	10,010	22,838
Shebin el	Kana	ter	***	500	•••	669		31	4	28 <b>55</b>	27	11,001	18,281
Saff	•••	• • •	•••	•••	• • •	446	336	39	9	37	19 25	14,040	20,308
Ayat	***	•••	•••	•••	• • •	560		212		151	23	14,001	31,891
						l				201	20	14,130	24,646

Table No. 58 (contd.)

			In-Pati	ents			Out-P	atients
Hospital	Treated during	Disch	narged du	iring the	year	Re-	No.	NT 6 NT: -: 4
	the year	Cured	Re- lieved	Not improved	Died	maining	New Cases	No. of Visits
Etsa	673	284	285	48	30	26	14.253	21,026
El Wasta	5,1	322	117	6	48	28	9,084	15,786
Beba	518	321	126	6	38	27	11,993	
Beni Mazar	741	566	64	. 9	66	36	22,886	
El Fashn	468	270	142	10	34	12	11,598	
Samallout	839	316	387	2	<b>7</b> 3	38	16,814	,
Deirout	771	333	318	25	72	23	16,495	1
Badari	368	257	65	9	22	15	15,010	,
Sahel Selim	272	144	101	1	17	9	10,31	18,730
Abou Tig	759	437	18°	7	101	31	17,521	33,543
Akhmim	364	225	90	3	<b>3</b> 6	10	9,589	(
Baliana	252	142	(8)	2	33	7	16,951	24,801
Girga	499	348	83		51	17	10,141	19,046
Dishna	297	171	10 <sup>2</sup>	2	10	6	11,376	/
Kous	290	158	94	2	29	7	16,369	,
Nag Hamadi	479	176	245		47	11	15,867	34,052
Kom Ombo	453	369	32		43	9	10,636	
Edfou	341	245	61	3	24	8	9,433	14,181
Eneiba	53	32	15	-	2	4	1,606	,
El-Dirr					_		1,608	4,010
Total	87,326	47,669	27,811	2,511	5,860	3,475	1,749,732	3,256,737

TABLE No. 59.—DEATHS

The Following table shows the number of deaths among in-patients during the last five years and their ratio to patients treated.

Year									No. of In-Patients	No. of Deaths	Percentage	
1939	•••	•••	•••	• • •	•••	•••	• • •	• • •	•••	131,068	7,056	5.38
1940	•••	•••	•••	• • •	•••	•••	• • •	• • •		104,475	6,822	6.53
941	•••	•••	•••	•••	•••	•••	•••	•••	• • •	93,029 95,587	6,943 <b>7,24</b> 8	7·46 7·58
1943	•••	•••	•••	•••	•••	•••	•••	•••		87,326	5,860	6.71

TABLE No. 60.—OPERATIONS AND X-RAY EXAMINATIONS

The Following table shows the number of operations and X-Ray examinations.

Year						In-Patient Operations	Out-Patient Operations	Total	X-Ray Examination
1939 1940 1941 1942 1943	•••	•••	•••	•••	•••	50,115 37,815 30,890 33,007 32,110	86,511 80,198 81,781 79,024 71,096	136,626 118,013 112,671 112,031 103,206	65,591 47,088 30,226 26,746 19,605

### VENEREAL DISEASES

The following Table gives the number of Prostitutes treated in hospitals during 1943.

Table No. 61

	Т	OTAI	٠ . د		. 368
Other diseases	•••	•••	• • •	• • •	
Syphilis			• • •	• • •	16
Gonorrhoea	•••	• • •		• • •	352

The following Table gives the total number of patients treated for venereal diseases in hospitals during 1943.

TABLE No. 62.

Ir	n-Patient Sections		Out-Patient Sections			
Gonorrhœa	Syphilis	Total	Gonorrhœa	Syphilis	Total	
219	280	499	1,939	1,627	3,566	

## Chapter XI.—OPHTHALMIC HOSPITALS

New Units.

During this year a new ophthalmic branch was provided in Aga General Hospital. This brings the number of ophthalmic units to 94 of which 79 are permanent and 15 travelling.

### Clinical Work.

The following table No. 63 shows the clinical work done in 1943 as compared with that of 1942.

Table No. 63

	•				1942	1943(1)
New patients In-patients Operations Out-patients atte	•••	  ces	•••	• • •	1,303,949 32,233 291,611 8,110,014	1,048,307 25,460 205,321 6,086,272

The number of patients who were found blind in one or both eyes, excluding cataract cases causing blindness, was 53185 - i.e. 4 per cent of all patients examined at the ophthalmic hospitals.

By adding the cataract cases causing blindness, the percentage becomes 4.2.

Acute ophthalmias form 82 per cent of all causes of blindness. The gorococcus is still the predominant factor of ir fection with acute ophthalmias, its ratio to total of microbes being 40 per cent.

### Age of patients.

Out of 1048307 new patients treated, 38062, i.e. 8.4 per cent, were under the age of one year; 336871, i.e. 32.13 per cent, between one and 15 years of age; 265019, i.e. 25.29 per cent, between 15 and 30 years of age, and 601890, i.e. 57.42 per cent, between one and 30 years of age. This fact shows that the mass of people recognise the importance of seeking ophthalmic treatment for infants, children and youths.

#### School Clinics.

Ophthalmic examination, inspection and treatment are, at present, carried out in 36 primary government schools at Cairo and the provinces.

15058 pupils were examined, of whom 98.7 per cent were found suffering from trachoma in its various stages. About 24.73 per cent of these were in the active stages of the disease (trachoma I & II).

As a result of ophthalmic treatment the latter percentage fell to 7.6 per cent.

In this connection it is to be noted that in government schools, the most correct percentage of the prevalence of trachoma among school pupils can be obtained. This is due to the fact that the examination and treatment are carried out in such schools regularly and permanently on pupils who are under the supervision of treating doctors.

<sup>(1)</sup> The decrease is mainly attributed to the precautionary measures adopted against the typhus fever epidemic during this year.

### Other Services.

Medical officers of the Ophthalmic Section also visit regularly certain other hospitals and institutions to examine and treat eye cases, e.g.

Leprosy Colony and Hospital at Abu-Zaabal and Syufia.

Mataria Children Dispensary.

Fever Hospitals at Abbassia and Embaba.

Mental Diseases Hospitals at Abbassia and Khanka.

Home for Weanings at Zeitoun.

Preventorium at Zeitoun.

In addition to these services, medical officers of the Ophthalmic Section proceed occasionally to the frontiers districts to examine and treat the inhabitants there for sometime every year.

During pilgrimage, the ministry sends a medical mission to Mecca and Medina to examine and treat gratis the pilgrims of all nations and the native inhabitants as well. The medical mission is usually accompanied by ophthalmic doctors for the examination and treatment of eye cases.

#### Accommodation.

The number of beds in all the ophthalmic units was 2136.

## Post-graduate course of ophthalmology.

Of the medical officers of the Ophthalmic Section who attended the preliminary course of ophthalmology 5 were examined in April 1943 and 3 passed; and one in October and he passed.

Of those who attended the secondary course, 4 were examined in May 1943 and three passed; and 4 in November 1943 and 3 passed.

## Modern apparatus and instruments in ophthalmic hospitals.

The ministry provides the ophthalmic hospitals as much as possible with modern apparatus and instruments to keep pace with the progress achieved in the ophthalmic field.

## Chapter XII.—PHARMACIES

#### Private Pharmacies:

Only one new pharmacy was authorised this year. This is owned by a qualified Egyptian Pharmacist as against 11 pharmacies closed down. The total number of existing pharmacies is 483 of which 406 are owned by Egyptians (268 by qualified pharmacists and 138 by non-pharmacists) and 77 are owned by foreign subjects (41 by qualified pharmacists and 36 by non-pharmacists).

## Pharmacies Annexed to Public Health Offices.

One of the 13 pharmacies annexed to Public Health offices was abolished during the year leaving 12. These are provided for the purpose of dispensing medicines in localities having no pharmacies.

### Cairo Night Service Pharmacies.

There were 4 night service pharmacies in Cairo during 1943 as against 7 in 1942, 3 having been closed down during the year. These dispensed 6252 prescriptions during night service, excluding specialities and patent medicines which are issued without prescriptions,

## Medical Practitioners who prepare drugs in their clinics for their Private Patients.

The number of Medical Practitioners who prepare drugs in their clinics for their private patients were as follows:—

Gharbia	5	Giza	2	Behera	3	Menoufia	3
Dakahlia	1	Kaliubia	3	Fayoum	1	Qena	1
Beni Suef	1	Minia	1	Gerga	1		

## Poisonous Drug Stores.

No permits for dealing in poisonous substances were granted to drug stores; 6 permits for trading in agricultural and industrial substances were granted (5 in Cairo and 1 in Gerga); and 2 were withdrawn in Cairo. No permits for trading in stupefacient drugs were issued.

#### Simple Drug Stores.

5 permits were granted by the Ministry for simple drug stores (2 in Menoufia, 2 in Gharbia and 1 in Sharkia); and 2 were cancelled in Gharbia.

# Registration of Egyptian Specialities.

During the year, 213 permits for the preparation and sale of Egyptian specialities were granted and 40 specialities were refused registration. 133 permits are held up until the announcement of their prices by producers. This brings the total number of registered specialities to 1033.

## Students of Pharmacy.

During 1943, 64 students of the Egyptian School of Pharmacy and 2 of Foreign schools were authorised by the Ministry to pass the statutory period of training in pharmacies, as against 58 and 4 respectively in the previous year.

## Violation of the Law.

159 cases of contravention were brought before the courts by the Ministry. Of these, 64 were for trading in poisonous drugs without permits, 23 for practising pharmacy without authorisation and 72 against pharmacists and assistant pharmacists for violating the law.

## Pharmaceutical Preparations.

4 Laboratories (3 in Cairo and 1 in Alexandria) were authorised in 1943 to manufacture pharmaceutical preparations.

Table No. 64 Showing Quantities of Stupefacients Imported into Egypt and Exported therefrom during 1943

Quantities In	mported	Quantities	Exported
Kg.	Gr.	Kg.	Gr.
6	425		
1	<b>2</b> 84		
-	400	_	
	210	_	
	Kg. 6 1	6 425 1 284 400	Kg.     Gr.     Kg.       6     425     —       1     284     —        —     —       400     —

#### QUANTITIES OF STUPEFACIENTS CONFISCATED FOR ILLICIT IMPORT AND EXPORT

					Kilo
Opium	•••	•••	• • •	• • •	665
Cannabis Indica	•••	• • •	• • •	•••	2036
Heroin	• • •	• • •	• • •	• • •	1

#### QUANTITIES OF STUPEFACIENTS CONSUMED FOR MEDICINAL PURPOSES

	Kilo
Opium and its preparations	6
Morphine and its salts	1
Cocaine and its salts	1
Cannabis Indica	9

## Part IV.—ENDEMIC DISEASES

## Chapter XIII.—BILHARZIA AND ANCYLOSTOMA

#### New Units.

During this year, four new Ancylostoma and Bilharzia units were inaugurated:

- 1.—At Dikernis District Hospital inaugurated on October 20, 1943.
- 2.—At Kafr-el-Dawar District Hospital inaugurated on November 1, 1943.
- 3.—Traveling Hospital (No. 41) inaugurated on December 5, 1943 at Delingat.
- 4.—Endemic and Medical Diseases Hospital inaugurated on December 15, 1943 at Tewfikieh (Behera).

This brings the total number of all Bilharzia and Ancylostoma units up to 94 of which 7 are stationary, 44 traveling, 27 branches in District Hospitals and 16 School Clinics.

## Units Transferred from Provincial Councils.

According to the decision of the Council of Ministers of May 16, 1943, regarding the transfer of treatment units of Provincial Councils to The Ministry of Public Health, the following units were transferred to this Section as from May 1, 1943.

- 1.—The Trav. Anc. and Bilh. Hosp. of Qena P.C. at Farshout (No. 36).
- 2.— ,, ,, ,, Giza P.C. at Hawamdieh (No. 37).
- 3.— ,, ,, ,, Dakahlia P.C. at El Sirw (No. 38).
- 4.— ,, ,, ,, Kaliubia P.C. at Toukh (No. 39).
- 5.— ,, ,, ,, Sharkia P.C. at Anshas (No. 40).
- 6.— ,, ,, ,, Menoufia P.C. at Menouf was regarded as an Anc. and Bilh. Branch of Menouf District Hospital.

### Number of Patients treated.

In the following table, the number of new patients, injections and anthelmintic doses given are shown as compared with the corresponding numbers of the previous year (1942)

				1942	1943
Number of New patients	•••	•••	•••	988,081	1,052,474
Number of new infections	• • •	• • •	•••	3,650,077	3,527,622
Anthelmintic doses		• • •	• • •	448,534	450,088

## Treatment of Pupils.

Pupils examined		31961
Anti-bilharzia injections administered	gin-munichangg	51720
Anthelmintic doses given		6628

## Treatment of Territorial Force.

4694 men were examined this year as against 8678 examined during the previous year.

## Units Undertaking Treatment in Neighbouring Localities.

During certain months of the year, work in Bilharzia and Ancylostoma units become so little that these are able to undertake, in addition, treatment in neighbouring localities without interruption of their original work. For instance, the Bilharzia and Ancylostoma unit at Shebib el Kanater was able to treat 1432 workers of Gebel el Asfar Sewage farm during this year. These received a total of 6204 injections and 1692 anthelmintic doses.

In the same way, treatment was extended to students of El Azhar and Fouad l Universities as well as to residents in the Agouza home for waifs, Pont Lemon Club and other similar institutions.

## Providing Hospitals with In-patient Sections.

Great strides have been made towards providing in-patient sections in Bilharzia and Ancylostoma units for the accommodation of patients coming from distant villages and thus spare them the trouble of travelling long distances, particularly weak and anæmic patients.

A new hospital for medical and endemic diseases with a 20 bed in-patient section was opened on December 15, 1943, at Tewfikich (Behera Province). A 10-bed in-patient section is being provided in Tanta Bilharzia and Ancylostoma Hospital and another with an accommodation of 6 beds in the Bilharzia and Ancylostoma hospital No. 34 in Minia. Further in-patient sections will be provided in other hospitals as funds become available.

## Providing accommodation for Endemic Diseases cases in District and General Hospitals.

Four beds have been reserved in each of the following district and general hospitals for the treatment of endemic diseases: Aga, Menouf, Dekernis, Ayat, Rosetta, Damietta. Port-Said, Kaliub, Mansoura, Zagazig, Shebin El Kom and Assiut.

Whenever this is possible, four beds will be reserved for the same purpose in each of the remaining district and general hospitals.

## Cooperation of Ancylostoma and Bilharzia Units and General or District Hospitals.

As the preliminary treatment of parasitic infections in medical diseases cases is of paramount importance, it was decided that out-patients attending district or general hospitals provided with Ancylostoma and Bilharzia branches should first be examined and treated for parasitic infections, after which they would be treated for medical diseases.

## Treatment of Medical Diseases and Out Patients by Anc. and Bil. Units.

A new procedure was tried in July 1942 whereby (1) Anc. Units not annexed to general hospitals in Behera Province were authorised to treat such medical diseases as their inpatients might be suffering from, and (2) Anc. Branches in district and general hospitals were authorised to undertake out-patient treatment. Some 3181 cases of the former and 5062 of the latter were treated during the year. The result proved satisfactory in that the attedance increased and the patients showed more desire for treatment.

### Treatment of Malaria.

In order to save the time lost in forwarding blood films to Fouad 1st Institute for Tropical Diseases in Cairo for examination and to expedite treatment of malaria, laboratory assistants in certain Anc. Units now undertake the examination of blood films for malaria having been trained in this work. It is proposed to train laboratory assistants in the remaining Units in this work.

### Treatment of Pellagra.

Of a total of 11265 pellagra cases examined during the year, 3997 cases received treatment as compared with 24691 cases examined and 16313 cases treated in the previous year.

Lack of yeast powder led the Ministry to try other substances. Certain units are now experimenting with dried dates and dried Moloukhia in the treatment of pellagra

## Cases of Poisoning.

.

Cases of poisoning recorded during the year were 3 with tartar emetic, all fatal, and 4 with Carbon tetrachloride one of which was fatal.

## Compulsory Treatment of Bilharzia in Fayoum Province.

Now that the clearance of water channels in Fayoum Province which was undertaken by the Snail Eradication Section is complete, a ministerial arrêté was issued applying the Bilharzia Control Law No. 58 of 1941 to the whole province. Under this law, treatment of bilharzia is now compulsory throughout the province; the following Units having been engaged in the treatment campaign:—

- 1.—Travelling Anc. and Bilh. Units Nos. 4 in Fayoum, 14 in Sinnouris, 19 in Shawashna, 25 in El Gharak El Sultani and 38 in Ezbet Abou Glayel.
- 2.—Travelling Anc. and Bilh. Clinics Nos. 4 in Tattoun, 7 in Lahoun, 11 in Sanhour, 14 in Edwa and 15 in Abshaway
  - 3.—Anc. and Bilh. Branch in Etsa District Hospital.

The treatment Campaign had to be reviewed in July 1943 and it was finally decided to adopt the procedure of concentrating treatment in one locality.

Herebelow is a statement of the work accomplished during 1943:—

1.—Number of	new patients	107,490
2.— ',,	bilharzia cases	43,164
3	patients commencing treatment	32,397
4 ,,	,, completing treatment	31,713
5 "	,, cured	21,605
6 ,,	" injections given	388,202

## Chapter XIV.—MALARIA

The general ratio of positive malaria cases to blood specimens examined rose from 8.9 °/0 in the previous year to 16.9 °/0 this year. The greater part of the cases was recorded in Upper Egypt where the ratio was 11.6 °/0 as against 4.3 last year. The ratio for Lower Egypt was 18.1 °/0 as against 10.3 °/0 in the previous year.

All the 10 permanent malaria stations continued to operate as usual with the exception of the Giza Station which had to be annexed to the Gambia Eradication Section. The six travelling hospitals also remained the same with the exception of No. 4 travelling hospital which was transferred from Kafr Abu Nasir to Dekernis.

Table No. 65 shows the movements of the malaria outposts during the year. The quantities of drugs distributed by these units were greater in proportion to the increase of patients than in the previous year. Table 81 gives the quantities distributed of each drug.

## II.—Malaria Units.

No new Malaria units, permanent or travelling, were created this year. Table 65 gives the distribution of the existing units.

# III.—Blood Specimens & Results thereof.

Of a total of 113,005 blood specimens examined this year in Lower and Upper Egypt, 19,057 or 16.9 per cent were returned positive for Malaria (New infection and relapses). Tables 66, 67 and 68, give the distribution of these cases according to the three categories of patients namely, (1) Attendances at Malaria units, (2) Suspected patients, and (3) Patients undergoing general examination, in both Lower and Upper Egypt. The ratio of positive results was highest in the first category as patients were either suffering from Malaria symptoms or a rise in temperature.

Besides the above, the Endemic Diseases Research Institute and Hospital examined a number of blood specimens for Malaria forwarded from different localities. Table 69 gives these localities and the results of the specimens.

# IV.—New Malaria Infections & Relapses.

Of a total of 19,057 Positive cases, 4565 or 24 per cent were new infections. The remainder were relapses as per Table No. 68.

# V.—Age distribution of Malaria cases.

Table 70 gives the age distribution of positive cases. Positive cases amongst infante are generally considered as new infections hence the ratio in this age group is lower than in other age groups which are susceptible to relapses.

# VI. - Types of Malaria.

Table 7I shows the incidence of the various types of Malaria and ratio in Lower Egypt, the Suez Canal, and Suez Governorates and in Upper Egypt, the Western and Southern Desert Governorates.

## VII.—Monthly Distribution of Malaria.

Tables 72 and 73 give the monthly distribution of all types of malaria in Lower Egypt. Suez Canal & Suez Governorates and in Upper Egypt, the Western and Southern Desert Governorates. The incidence of benign malaria reached its peak in Lower Egypt during July to October, the malignant type reached its peak in the beginning and end of the year.

# VIII.—Malaria Cases & Deaths notified in the Governorates & Provinces during 1942-1943.

Perusal of Table 74 shows that whereas the incidence of malaria was 3,407 cases less than in the previous year, there were 947 more deaths. This is attributed to the Gambia infection in Qena and Aswan Provinces.

## IX.—Malaria and Spleen Index.

No further research was made in respect of spleen-index, sufficient data having been compiled in previous years.

## X.—Mosquito Breeding Places.

The detection and control of mosquito breeding places were carried out on the same lines as in previous years. Dangerous breeding places were given first priority and were reported to the competent authorities for immediate extermination.

Tables 75 and 76 give details of the work carried out by the various units.

#### XI.—Control Measures.

The same temporary and permanent control measure were adopted as in previous years. A total of 81.750 kilogrammes of Paris Green and 113.652 tons of mazut were used for the purpose during the year; (see table No. 77).

As usual, the Department of Village Affairs undertook the permanent control measures which cost L.E. 41,507.600 during 1942–1943 and L.E. 17,596.830 during 1943–1944. 57 birks with a total surface area of 89 f. 4 k. 23 s. were filled in during the first year and 40 birks with a total surface area of 30 f. 0 k. 1 s. were filled in the second. (Vide tables 78 and 79).

# XII.—Filariasis (Elephantiasis).

Of a total of 226 blood specimens received by Fouad El Awal Institute and Hospital for Endemic Diseases from Fareskour area, 30 were returned positive. No other research work was carried elsewhere.

### XIII.—Drugs and Treatment.

Drugs were issued to patients who had been examined microscopically. Table No. 81 gives the quantities of drugs distributed during the year in Lower Egypt and in the localities remaining under the control of the Malaria Section (i.e. other than provinces controlled by the Gambia Eradication Section).

#### MILITARY ORDERS AND MINISTERIAL ARRETES

## Military Orders.

- A.—In order to exterminate mosquito breeding places in both Lower and Upper Egypt, the Ministry had issued two decrees, namely No. 1 of 1926 prescribing anti-malaria measures; and No. 103 of 1939 providing for the filling in of birkas and prohibiting the formation of burrow pits. As these measures proved ineffective and in view of the appearance in Upper Egypt of the Gambia mosquito, Military Order No. 363 of 1943 was published on January 21, 1943. According to this order, owners of birkas were required to fill them in within three months if under half a feddan in area, or within six months if over. By this means, it was possible to fill in a total area of 2000 feddans of birkas or one fifth of the total birkas in Egypt. The remaining breeding places were either owned or temporarily requisitioned by the Government for filling in purposes and later debiting owners with the costs, as per provisions of the order.
- B.—As a further control measure against the malaria borne mosquito—the Gambia mosquito in particular—Military Order No. 395 of 1943 was published on April 21, 1943, prohibiting rice cultivation in all Upper Egypt provinces, except Fayoum Province, and regulating the irrigation and drainage of rice cultivations in certain localities.
- C.—A third Military Order No. 396 was published on May 5, 1943, restricting rice cultivated areas where this was permitted and providing that these must be thoroughly dried between irrigation rotations.

#### Ministerial Arrêtés.

Only one Ministerial Arrêté prohibiting rice, rush and paniele cultivation in the vicinity of Kafr el Dawar Pumping Station, Behera Province, was issued in connection with Military Order No. 115 of 1941 dealing with anti malaria measures in localities where troops were garrisoned.

## TABLE No. 65

		1	
Provinces	Permanent Stations	H.Q.& No of the Travel- ling Hospitals	Malaria Outposts
	A.—	-Lower Egypt.	
Behera	(Edku Kafr el Dawar	Kafr el Dawar 3 (Not yet oper.ed)	El Montazah, El Nazlia, Khorshed.
Dakahlia	p salaring.	Dekernes (4)	Serw Kafr Abu Nassir, El Mar.soura.
Gharbia	Kafr el Sheikh	Desouk (5)	Biala-Kallin.
Sharkia		Belbeis (2)	Tel El Kebir Farcuqia, El Faridia.
Canal	Ismailia		Abu Sweir, Nefisha, Sarabium, Abu Sultan.
Suez	Sue <b>z</b>	Magazin Austr	Kubri Shallufa.
Kaliubia		Toukh (6)	Inshaw-Hermiel.
	B	-Upper Egypt.	
	1	1	IN of Chotati (It man dail d
Giza	Giza	_	Kafr Ghatati. (It was decided to attach it to the Gambia Section.
Fayoum	Fayoum Wadi El Natroun	Abshaway 1 Wadi El Natroun	Baharin Oasis,
Frontier Governorates	-		(Daklil and Kharga Oases.

TABLE No. 66.—Showing Blood Specimens taken from Lower Egypt and the Canal and Suez Governorates during 1943 and results of examination.

	No. of		Pot	tive	
Category	Specimens	New	Rolapses	Total	%
(1) Attendance at Malaria Stations and their Branches (2) Suspected persons in their residence (3) Persons under general examination	13,795	3,599 <b>6</b> 33 213	10,056 964 1,068	13,658 1,597 1,281	34·4 11·5 3·4
GRAND TOTAL	91,321	4,445	12,088	16,533	18.1

Table No. 67.—Showing Blood Specimens taken from Upper Egypt and Southern and Western Desert Governorates during 1943 and results of examination.

	No. of		Posit	ive	
Category	Specimens	New	Relapses	Total	%
<ol> <li>(1) Attendance at Malaria Stations and their Branches</li> <li>(2) Suspected persons in their residence</li> <li>(3) Persons under general examination</li> </ol>	$2,749 \\ 3,049$	31 15 74	614 88 1,702	645 103 1,776	23·4 3·3 11·3
GRAND TOTAL	21,684	120	2,404	1,524	11,6

Table No. 68.—Showing Blood Specimens taken from the whole of Egypt (Lower and Upper Egypt, Canal, and Frontiers Districts).

	No. of		Pos	iti <b>v</b> e	
Categor <del>y</del>	Specimens	New	Relapses	Total	%
<ol> <li>(1) Attendance at Malaria Stations and their Branches</li> <li>(2) Suspected persons in their residence</li> <li>(3) Persons under general examination</li> </ol>	42,714 16,844	3,630 648 287	10,670 10,524 2,770	14,300 1,700 3,057	33·4 % 10·09% 5·6 %
GRAND TOTAL	113,005	4,565	14,492	19,057	16.9

Table No. 69.—Showing No of specimens examined for malaria by the Research Institute during 1943 and results.

Districts sending specimens	No of specimens	Positive	Districts sending specimens	No. of specimens	Positive
Aswan Qena Girga Assiut Fayoum Kharga Oasis Dakhla ,, Behera Gharbia Dakahlia	1 117 1,931 2,771 219 2,001 348 205 574 338 413	874 1,576  189 56 46 88 93	Brought Forward  Boulac Unit (Cairo) Canal Ismailia Alexandria The hospitals Anclystoma Units Malaria Section Research Institute	2 257 1,627 52 2,746	6 4
Carried forward	9,917	3,437	GRAND TOTAL	14,863	4,832

TABLE No. 70.-SHOWING AGE DISTRIBUTION OF MALARIA CASES IN LOWER EGYPT, THE CANAL AND SUEZ GOVERNORATES AND IN UPPER EGYPT AND THE SOUTHERN AND WESTERN DESERT GOVERNORATES DURING 1943.

	0	25.3	24.3	26.3	44.4		1.6	3.03	81,8	9,4	21,05			000 5000
æ	Ratio %										ा े	7		TOTAL TOTAL
Above 36 years	Positive	421	577	308	111	108	37	1,089	% €31	141	000	381		548
V	No. of Specimens	1663	2,183	1,169	250	1,359	2214	3,108	11,946	1,488	9-	2,989		4,532
ars	Ratio %	30.04	32.4	21.9	20.1	13.008	3.1	16.1	19,8	- I		15,1		62
From 16 to 36 years	Positive	1,285	1,810	841	789	374	131	1,380	6,610	154	523	640	6	847
Fron	No. of Specimens	4,270	5,400	3,828	3,917	2,875	115	8,528	32,933	2,141	475	4,230		6,846
ars	Ratio %	1.7	2.8	1.3	27.3	8.4	1.9	39.3	16,6	6,7	8,6	12,6		8,8
From 1 to to 15 years	Positive	1,484	1,594	096	633	334	124	1,627	6,756	431		321		189
From	No. of Specimens	8,702	157	966,9	2,312	3,960	6,312	6490	39,929	6,401	430	2,530		9,361
ear	Ratio %	10.2	16.6	6.9	3.2	2.33	,18	9.9	7.9	6.1 6.5		4.9		4.
Ohildren under 1 year	Positive	89	157	28	26	10	2	225	516	<del>,</del>		39		40
Childs	No. of Specimens	594	941	406	800	429	1,092	2,251	6,513	43	72	790		902
			:	:	•		:	:	:		• • •			•
			:			٠		:	Total					Torat
	Region		•		, , ,				77		n			H
	<b>x</b>		•	•	•	•	•	0 0			Natron	Desert		
		Behera	Gharbia	Oakahlia	Sharkia.	Canal .	Suez	Kaliubja		O WOTH IY	Wadi El Natroun.	Southern Desert		
		Be	3	D	Sh	C	S	M		<u> </u>	1 =	20		

TABLE 71.—SHOWING NO. OF CASES ACCORDING TO MALARIA SPECIES IN LOWER EGYPT AND THE CANAL AND SUEZ GOVERNORATES AND IN UPPER EGYPT AND THE SOUTHERN AND WESTERN DESERT GOVERNORATES DURING 1943

					63
	%			0.1	0,03
Quartan Malaria	Relapses				
Quartar	пеж				İ
	No.	.			-
	Ratio to	22.4 33.1 10.8 62.2 61.1 74.4 24.9	30.8	45.3 31.8 82.02	16 16
Malignant Tertain	Relapses	409 645 645 217 273 219 748	2,950	306 27 1,022	1,355
Malignan	New	321 827 15 432 232 330	2,157	24 8 20	S. S.
	No.	730 1,372 232 971 505 1,078	5,107	330 35 1,042	1,407
	Ratio to post.	77.5 66.8 89.1 37.7 38.8 25.4 75.05	00 10	54.4 68.1 37.6	41,9
[ertian	Relapses	2,107 2,032 1,868 330 129 73 2,899	9,138	362 66 827	1,055
Benign Tertian	New	421 1,034 37 258 192 344	2,288	34	70
	No.	2,528 2,766 1,905 1,905 588 321 75	11, 426	396 75 638	1,109
Ratio	%	21.3 20.2 17.2 21.4 9.5 21.2	18.1	10.2	11.6
Total	poeit.	3,258 4,138 2,137 1,559 826 294 4,321	16,533	1,680	2,517
Total of	specimens	15,229 13,681 12,399 7,279 8,623 13,733	91,321	10,073	21,684
			•		:
	corate		: .		•
	Province or Governorate		TOTAL		TOTAL
	not or		H	Natroun Desert	To
	Provin			ZA	
		BeheraGharbia Dakahlia Sharkia CanalSuez Kaliubia		Fayoum Wadi El Southern	
I.		HOHOOOM		阿泽敦	

TABLE NO. 72.—Showing monthly distribution of Malaria Cases according to Species in Lower Egypt and the Canal and Suez Governorates during 1943

:	Total of	Total of	ò		Benigh Malaria	[ALABIA			Malignant Malabia	Maeabia			QUABTAN MALARIA	MALARIA	
Monte	Specimens		se	No.	New	Relapres	%	No.	New	Relapses	%	No.	New	Relapses	%
											Ì				
January	8,841	41 1,243		698	25	673	7.8	57.5	332	213	6.1	1	1		
February	7,894	94 681	-	206	56	180	2.6	475	324	151	6.02	1	l		1
March	7,262	62 927	-	287	51	236	හ. ග	640	308	332	8.				1
April	5,350	50 842	1	470	92	378	8.7	372	298	74	6.9	1			Ì
May	6,341	1,206	1	974	190	784	15.3	233	06	142	6.3	I	I	1	teappe
June	8,193	1,320		1,106	173	933	4.87	214	62	136	2.6	1	l		1
July	6,517	517 1,679	-	1,397	194	1,203	21.4	282	29	235	4.3	-	-	1	l
August		7,338 1,588		1,348	299	1,049	18.3	210	62	178	3.2	l			1
September	8,4	8,488 2,008	8	1,673	392	1,281	19.7	335	09	275	က က	l	1		1
October		8,792 2,035		1,694	455	1,069	17.2	011	132	379	ت. ه	1	1	i	1
November	3,6	9,906 1,848	00	1,300	307	993	13.1	248	177	371	5.5	1	-		1
December	9	6,399 1,156	9	268	104	464	8.8	288	208	386	9.1				1
Total	91,321	321 16,533	18.1	11,551	2,308	9,243	12.3	4,982	2,137	2,845	70		l		1
				_							-				

TABLE NO. 73.—Showing monthly distribution of Malaria Cases in Upper Egypt and the Southern and Western DESERT GOVERNORATES DURING 1943

			-												All the water
	Total of	Total of			BENION MALABIA	MALABIA			Malignant Malabia	MALARIA			QUABTAN	QUARTAN MALABIA	
MONTH	Specimene	Cases	%	No.	New	Relapses	%	No.	New	Relapses	%	No.	New	Relapses	%
January	2,227	164	7.36	84	9	82	51.2	08	ಣ	22	48.7		and the second		
February	1,440	137	0.5	94	22	92	9.89	42	H	41	36.5	-	J	p(	0.72
larch	1,360	131	9.6	62	ಣ	92	60.3	52	Ø	50	30.6	l	1	1	***
April	1,328	165	12.4	66	2	97	.09	99	i	99	40	1	1	1	
ilay	1,487	115	1.1	<del>-</del> 19	ŭ	56	ಭ	45	-	4	. 46.9		İ	ı	1
June	1,422	145	10.19	62	ಸ೦	57	42.7	$\mathfrak{S}$	က	08	57.3			ı	1
July	1,102	93	8.4	45	7	38	48.3	48	4	44	51.6	l	1	1	1
psnbuy	1,893	201	9.01	97	8	89	48.2	104	11	<b>6</b> 6.	51.4		1	l	1
September	914	84	9.19	44	6	35	52.3	40	ಣ	37	47.6	-		Ì	1
October	1,587	184	11.6	96	ο	88	52.1	88	10	78	47.8	I		I	1
November	1,979	256	12.9	1111	67	109	43.3	145		144	26.6	ı	j	-	
December	2,749	551	20.	280	1	279	50.8	271	10	266	49.1			1	
TOTAL	19,488	2,226	11.6	1,152	82	1,094	2.12	1,073	43	1,030	48 .2	-		-	0.72

TABLE No. 74.—Number of Malaria Cases and Deaths notified during the Years 1942 and 1943

GOVERNORATE OR PROVINCE	19-	42	194	13	-	Differenc	В
GOVERNOISEE ON LEGITICE	Cases	Deaths	Cases	Deaths	Cases	1	Deaths
			-				
Cairo	601	41	575	30	2	66 +	16
Alexandria	1,933	10	991	25	94	2 +	15
Ismailia	759	10	440	. 6	- 31	.9 —	4
Port-Said	160	2	149	1	]	.1 —	1
Suez	287	13	471	, 39	+ 18	34 +	26
Dametta	17		2 <b>2</b>	Address-	+	5	-
Sinai and The Red Sea	5 <b>4</b>		28	Service Co.	_ 2	26	•
Southern Desert	400		246	1	- 1	54 +	1
Western ,,	8		12	<u>Quinnada</u> (Pris	+	4	
Behera	1,191	4	713	3	_ 4'	78 —	1
Dakahlia	134	2	60	No.		74 -	2
Gharbia	264	4	223	4		n	agengan <sup>a</sup>
Menoufia	57	Barrens de Pris	47	. 1		10 -	1
Kaliubia	1,738		1,395	-	_ 3	43	
Sharkia	447	1	519	3	+	72 +	2
Gîza	92		96	2	+	4 +	2
Fayoum	1,297	7	793	1	5	04 -	6
Beni-Suef	72	5	75	3	_	3 -	2
Minia	48	1	<b>9</b> 5	1	+	47	pagence
Assiut	185	1	,25 <b>2</b>	2	+	67 +	1
Girga	1,879	11	214	6	_ 1,6	60	5
Qena	1,095	24	5,461	660	+ 4,3	66 +	636
Aswan	7,219	285	3,633	5 <b>5</b> 3	3,5	66 +	<b>26</b> 8
TOTAL	19,937	394	16,530	1,341	_ 3,4	07 +	947

N.B.—The large increase of cases in the Southern Provinces is mainly due to the prevalence of Gambia mosquito during 1942.

SHOWING VILLAGES INSPECTED AND NO. OF BIRKAS HARBOURING EITHER LARVAE OF ANOPHELES, CULEX PIPIENS OR BILHARSIAL SNAILS IN LOWER EGYPT AND CANAL ZONE AND IN UPPER EGYPT AND THE OASES. TABLE No.75.

rboar	iens	%		1 1	111	1 1	1	1	1	1	7.9 00	9 11	**
Birkas harbour	Culex-Pipiens	No.			ි   භ 		9	258		11	82.88	-	yand
		%		1		1			1				
Birkas harb.	Bilharz, Snails	No.		1					ಣ	63	10		
	1	W			1 1 1	<u> </u>		· · · · · · · · · · · · · · · · · · ·			10 CC		
	Other Species				1 1 1		70	- 89			1 24		
Larvae	Ot	No.	1	1 1		1 1-	ļ.	1	1				
neles Lan	Sergenti	%						41			<u>  获</u> 	4 1	F3
g Anopheles	- S2	No.							1		1 30		9
arbourin	Multicolor	%				1 1		- 5	6	-0	81		7 23.6
Birkas harbouring	Mul	No.						65			8	17	12
	oen.	%					1		1.	1	30.6		27.7
	Pharoen.	No.				10	10	113	<del>,</del> -1	00	144	19	30
free	V8.6	%			_		1	1	1	Į	31.1		2.6
Birkas free	of larvae	No.		60	9	6	12	21	29	17	149	2	ž.
	No. of Birkas	examined		1 80	6	8	22	292	78	40	479	30	32
		Inspected		- 2	4	တတ	14	9	က	16	62	13	70
		-					•	•		0	:		•
	uoi						sanches.	ranches	•	•	Total	: :	TOTAL
	Station				ikh		l its Br	d its B		:		::	
				Idku Kafr el Dawar	Fowa Kafr el Sheikh Biala	Faraskour Dekernis	Belbeis and its Branches	Ismailia and its Branches	•	Toukh		Fayoun: Abshaway	
	rate			Idku   Kafr	Fewa   Kafr   Biala	Fa	Be	Isı	Suez	To		{ Fa.	
	Governo			:	:	•	:	:	•	:		:	
	Province or Governorate			Behera	Gha <b>r</b> bia .	Dakablia .	Sharkia .	Canal	Suez	Kaliubia .		Fayoum .	

TABLE NO. 76,-SHOWING NO. OF INSPECTIONS OF MOSQUITO BREEDING PLACES IN LOWER EGYPT AND CANAL ZONE AND IN UPPER EGYPT AND THE SOUTHERN AND WESTERN DESERT GOVERNORATES DURING 1943.

<b>™</b> YwŢ	75	792	(Processes
Samas noitavitluO	111111111		1
Sugar Cane Cultivation			1
Bice RoltsvitlaD	129 230 129 159	8000	1
Marshee	141 	0240	
Ponds	84 7111 170 185 336 319 677	2,493 564 2	99
Canala & Irrigation Season of the Season of	2,082 5,082 74 74 8 208		200
e <b>ais</b> IQ	4,160 264 		let.
weils and Saking	215	222	 I
Undurnt Brick at lbbs4		711	
Railway Ditches	35 8 46 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	283	462
Burrow-Pite	103 27 25 25 27 20 27 8 27 20 27 8 27 20 27 8 27 20 27 8 27 20 27 8 27 20 27 8 27 20	928	
Unit	Idku  Kafr el Dawar  Fowa  Kafr el Sheikh  Biala  Faraskour  Dekernis  Belbeis  Sarab'um  Ismailia  Dabia  Suez  Toukh.	Fayoum Abshaway	
PROVINCE OR GOVERNORATE	!Sehera	:	TOTAL

Table No. 77.—Showing Quantities of Paris Green and Mazut Consumed during the Year 1943

District	Province or Governorate	)	Station		Paris Green in Kilograms	Mazut in Tons.
Lower Egypt and Canal Zone:	Behera	{	Idkou Kafr el Dawar	• • •	0.500	8·350 5·959
1	Gharbia	{	Kafr El Sheikh Biala		3·500 5·750 —	2 · 170
	Dakahlia	}	Faraskour Dekernis			12·261 258
	Sharkia	• • •	Belbeis		20	3.002
	Canal	• • •	Ismailia		5	3.620
	Suez	• • •	Suez	• •		51.599
	Kaliubia	{	Toukh Anshas	• •	4:000 3.000	1·380 300
			Total	• •	41.750	88 · 902
Upper Egypt and Frontiers Districts:	Fayoum	>	Fayoum Abshaway	• •	9·000 11	8·000 6·640
	Baharia Oasis					10.000
	Dakhla Oasis	. • • j			15	•110
	Kharga Oasis	• • •	_	-	5	
			Total		40	24 750
•			GRAND TOTAL		81.750	113 652

TABLE No. 78.—Showing Birkas Filled in during the fiscal year 1942-1943.

Province	Markaz	No. of	,	Total Area		Vol. of soil	Total	Total Cost	
Trovince	Mai Naz	Birkas	F.	К.	S.	in C. Metres	L.E.	Mill.	
Behera{	Kom Hamada Damanhour		6	20 10	9 18	3,154	449 2,694	445 773	
	TOTAL	2			3	39,993	3,144	218	
Gharbia	Samannoud Kafr El Sheikh Biala	5 4 5	10 18	19 9 15	22 15 8	42,234 .53,648 3,111	5,781 7,743 301	594 859 980	
	TOTAL	14	29	20	21	198;993	13,917	439	
Menoufia{	Shebin el Kom Quesna	1 2	1	19	2	17,709 6,053	1,947 423	990 710	
	TOTAL	3	3	_	2	23,762	2,371	700	
Dakahļia{	Dekernis El Senbella win	5	10 8	14 21	19 7	27,242 23,433	2,179 2,343	360 300	
	TOTAL	8	19	12	2	59,675	4,522	669	
Sharkia	Belbies  Mino el K mh  Hehya  Kafr Sakr	5 2 1 1	1 2 3	17 5 4	10 23 12	7,413 9,610 477 9,441	1,056 1,520 46 1,556	824 291 269 821	
	TOTAL	9	. 7	3	21	23,941	4, 180	205	
Kaliubia	Benha Toukh Shebin el Kanat r Kaliub	6 1 3 3	5 1 3 1	4 5 9 15	21 6 22 11	31,181 6,824 15,193 10,428	3,951 553 2,0 0 1,111	364 280 669 104	
	TOTAL	13	11	11	12	63,620	7,637	117	
G.za	Gi <b>z</b> a	5	7	I è	23	53.108	4,606	403	
Fayoum	Fa youm	3	3	3	• 11	16,170	1,127	858	
	GRAND TOTAL	57	89	4	23	472,268	41,507	600	

TABLE No. 79.—Showing Birkas filled in during the Fiscal year 1943-1944 by the Village Affairs Department.

Debited	No of		Total Area		Total	cost	Remarks
Debrook	Birkas	F.	К,	S:	L.E.	Millim	Lemarks
1.—Debited against supplementary funds of malaria section.							
Filling in birkas at Tahanoub village, Sh-bin el Kanatir District, Kaliubia Province	4	3	22	16	3,358	675	
Filling in Birkas at Ballana village, Eneiba District, Aswan Province	13	16	4	16	3,880	730	
Filling in Birkas at Eklit and Mansouria District, Aswan Province	15	4	3	17	1,536		
TOTAL	32	24	7	1	8,775	405	
2.—Debited against Kaliubia Pro- vincial Council Accounts.							
Filling in Birks sat Tahanoub vill. Shebin el Kanatir District, Kaliubia Province	2	2	2	_	3,557	785	
3.—Debited against Girga Pro- vincial Council Accounts.							
Filling in Birka at Manshaa. Girga District	3	2	18	_	3,442	810	
Filling in Birka at Nagah el Ting and Awlad Yahya, Girga District	3		21		1,820	880	
TOTAL	8	5	17	_	8,821	475	
GRAND TOTAL	40	30	0	1	17,596	880	

Table No. 80.—Showing Number of Warnings and P.Vs of contravention, drawn up by malaria Units and their branches in Lower Egypt and Canal Zone and in Upper Egypt and the Governorates of Southern and Western Deserts during 1943.

Province or Governorate	Unit	Burrow Pits or paddles		Filling or covering disused wells or sakias and abolishing Pumps		Cleaning drains or Miskas		Cleaning Ponds or marshes		Prohibition of Rice or sugar cane cultivation	
		Ws	P. Vs.	Ws	P. Vs.	Ws	P. Vs.	Ws	P. Vs.	Ws	P. Vs.
Behera { Dakahlia Gharbia Canal Suez	Idku Kafr el Dawar Faraskour Biala Ismailia Suez	6		75 — 1		145 57 32 18 307 222	71 14 — 53 9	7	4	105	62 — — —
	Total	6	1	76	35	781	147	7	4	105	62
Fayoum	Abshaway					14	1				
	Total			_		14	1		The state of the s		

TABLE No. 81.— Showing Total Quantities of Drugs distributed for Treatment purposes during Year 1943

#### A.—Quinine.

(2 grains)	•••	•••	•••	•••	•••	•••	188,770	Tablets.
(5 grains)	•••	•••	•••	•••	•••	•••	380,586	,,,
(Cho colate)	• • •	• • •	•••	• • •	•••	•••	40,495	9.0

#### B.—Plasmochine.

(Simple 1	Cgm.)	•••	•••	• • •	•••	516	"
( ,, 2	,, )	•••	•••	•••	• • •	3,811	,,
(Comp. 0.5	,, )	•••	•••	• • •	•••	76,027	>>
( ,, 1	,, )	•••	•••	•••	•••	10,099	9,

# Chapter XV.—GAMBIA

Diagnosis of the Disease, Identification of the Vector and Range of its Spread:

Early in 1942, a severe epidemic disease which led to a great increase in the death rate in the Southern part of Nubia was noticed. Investigations showed that it does not bear any relation to the usual epidemics which occur in these parts of Egypt.

On April 30, 1942, The Medical Entomoligist of the Ministry, Dr. S. Madwar, was sent to Nubia accompanied by Dr. Abdel Aal el Shawarby to enquire into the cause of the epidemic. It was found that 99 per cent of the first batch of blood films examined were positive for Malignant Malaria.

Since it was known that Upper Egypt was not a malarious place, the severity and extent of the malaria epidemic in these localities led to the suspicion of the introduction of a new Anopheline vector other than the endemic Anopheline species. Moreover, correspondence with the Sudar Medical Service revealed the presence of A. gambiae early in 1941 in pools alor gathe shores of the Nile at Debeira and Ashkeit. As these pools were dry at the time of examination, no larvae were found then.

On June 27th A. gambiae larvae were found in pools along the shores of the Nile at Ballana and Abu Simbel.

The next step was to determine the Northward spread of A. gambiae. Dr. S. Madwar, recorded its presence on the 1st. of July 1942 in Aswan; on the 10th of July he found it in Daraw, Kom Ombo and Edfou. In August, he found A. Gambiae at Luxor, and in October at Girga. In November he recorded it in Assiut and on the 21st of November it was found in Manfalout and this marked the Northern limit of A. gambiae in Upper Egypt.

A. gambiae is one of the most vicious species of Anopheline. It can be distinguished from the endemic species of Anopheline by having a band white of scales at the tip of the maxillary palpi and a speckled appearance on the femorae and tibiæ formed by creamy white scales. The fertilized female feeds preferably on human blood, and then it begins to lay its eggs. During the hot season the life cycle from egg to adult takes a week, but during the cold season this cycle may be prolonged to a month.

The larva of A. gambiae could be distinguished from endemic Anopheline species in having the inner clypeal hairs twice as long as the outer clypeal hairs and the space between the inner clypeal hairs at least twice as wide as that between the inner and outer hairs of the same side. Moreover, the inner clypeal bears small inconspicuous branches.

The preferred breeding places for A. gambiae are shallow, sunlit pools free from vegetations, near human dwellings. The female feeds preferably on human blood, and thus it is frequently found in bed rooms.

A. gambiae is widely distributed in South, West and East Africa. It is the most important vector of Malaria in Africa. The evil reputation of the continent of Africa as the white man's grave is due in large part to the exceptional activity of this mosquito.

A. gambiae has been found in Mauritius, Madagascar and in Aden. It is considered as one of the most vicious malaria carriers in the world and wherever it goes it causes severe epidemics of malaria.

In 1930, A. gambiae was transported by boats from Dakkar in West Africa to Natal in Brazil and there caused a devastating epidemic of malaria which lasted until 1940 when it was finally eradicated from the North West of Brazil.

A. gambiae is endemic in the southern part of the Sudan and extends to the north part when the conditions are favourable for its spread. The possibility of its introduction into Upper Egypt, was foreseen by the Ministry as is shown by a letter sent by the Research Institute and Endemic Diseases Hospital to the Quarantine Dept., on December 21, 1938. The following is an extract from the letter, ".... Egypt is connected by airways with Palestine, Sudan and South Africa. This Ministry fears not only the introduction into Egypt of an infected Yellow Fever mosquito but also of Anopheles elutus from Palestine and Anopheles functus as d Anopheles gambiae from the Sudan and South Africa. These species are notorious malaria carriers in their native countries and may cause severe epidemics of malaria if introduced into Egypt."

As to the introduction of Anopheles gambiae into Egypt, evidence points out that it was recently introduced into Egypt; late in 1941 or carly in 1942. There is no record of finding Anopheles gambiae in Egypt prior to that date. Moreover, the presence of Anopheles gambiae in Egypt would have been noticed from the severe epidemic of malaria which it causes. A. gambiae is endemic in the southern part of the Sudan. It has been recorded in 1938 at Zeidab, north of Khartoum and at Debeira and Ashkeit in 1941, which are few kilometers south of the southern Egyptian boundary.

As to the means of its introduction into Southern Nubia, it seems that it has been carried by boats (or winds) from Wadi Halfa to Abu Simbel owing to the increased volume of Nile traffic during World War II.

The devastating effect of the invasion of A. gambiae in Nubia was beyond description. The villages were deserted, the schools were closed and the people were confined to their homes. Such was the condition that the equipment and malaria drugs brought by the Medical Entomologist were left ashore for a few days and were transported by himself to the shore with the aid of the pilot and mechanic of the launch.

Moreover, the Malaria Section was still a small Section, when A. gambiae invaded Upper Egypt. The number of the Malaria Stations were 19 which were distributed in Lower Egypt. There was one Malaria Station budgeted to start in Aswan. The total personnel of the Malaria Section was 80 including 26 doctors. There was a shortage of means of transport. The Section had at the time ten motor-cars, eight motor-cycles and 50 bicycles, two launches and two river boats, which were distributed in Lower Egypt and Fayoum.

In addition there were other difficulties which arose from the War situation. There was a shortage of doctors in the Ministry. Besides, the migration of people from the Western Desert, and the accommodation of a large number of Air Raid refugees created difficult situations from the public health point of view. During the difficult years of 1942–1943 everything that was wanted was in short supply. Anti-malaria drugs and insecticides were difficult to secure owing to the war situation.

# Measures Taken to Combat the Epidemic.

During this difficult period, the first step that was taken was to treat the sick. Quinine and plasmochin tablets were freely distributed to the sick in distributing centres. The health condition of the people was greatly improved, and blood examination showed that 71 per cent of films examined were positive for malaria.

On the 21st May, a Malaria Inspector with two medical officers arrived at Abu Simbel and a treating unit was organised. At the end of 1942, the blood examination revealed the presence of Malaria parasites in 31 per cent of the films examined.

Meanwhile, a detailed plan was submitted to the Joint Malaria Commission on June 18, 1942 with the view of controlling the spread of A. gambiae and subsequent eradication of the invading mosquito. The Council of Ministers approved a credit of L.E. 15,000 for the control scheme and L.E. 2,000 for the relief of destitute malaria patients.

The first objective in this plan was to prevent the further northerly advance of A. gambiae. Thus a Ministerial Order was issued providing for the disinfestation of all means of transport passing from Assiut to the North and also of all Nile traffic coming from the South and passing the Southern Egyptian Sudanese Frontier at Addindan.

At the end of 1942, steps had been taken to organise a scheme for the control of the epidemic and to stop the northerly advance of A. gambiae beyond Assiut. These two objectives were achieved. The epidemic of malaria in Nubia subsided towards the end of 1942, and A. gambiae was stopped from advancing beyond Assiut.

By the end of 1942, the following measures were completed:—

- (1) Six Malaria Stations were established at Aswan, Kom Ombo, Edfou, Luxor, Girga and Manfalout.
- (2) Engineers were engaged instead of doctors. Three engineers were in charge of Malaria Posts at Edfou, Luxor and Girga.
- (3) Disinfestation posts were established for the disinfection of all means of road, rail and river transport.
- (4) Formation of Provincial Malaria Committees in all the Provinces invaded by A. gambiae.
- (5) Contacting the Middle East Supply Center for the provision of Anti-malaria drugs, and insecticides required for the Campaign.

#### Statistical Information.

The seasonal prevalence of Anopheles gambiae coincides with that of the local species. Thus there is a minor peak in April and June followed by a major peak during the months of September, October and November. Increase in malaria incidence follows shortly after the peaks. The malaria epidemic in 1942 affected Aswan, Qena and Girga Provinces.

The official statistics of cases and deaths in the provinces of Aswan, Qena, Girga and Assiut during 1942 were:—

- (a) Number of malaria cases reported ... ... ... 10,193
- (b) Number of deaths from malaria reported ... ... ... 320

These official statistics do not however give a true picture of the epidemic and an estimate of the incidence and deaths of malaria in the aforesaid provinces was made on the basis of attributing to malaria the increase of deaths in 1942 over 1941. Assuming that the normal mortality rate of malaria is 10 %, the number of malaria cases based on the increase in deaths would amount to 63,000.

#### Eradication.

The next step after relieving the patients was to eradicate A. gambiae on the lines adopted in Brazil.

Eradication differs in its outlook and organisation from control. Its objective is to kill the last gravid female mosquito, so that it will not appear again even after stopping all control measures.

Eradication passes through two stages:--

- 1.—The first stage is to treat systematically every potential breeding place as if it were an actual breeding place, until repeated surveys give negative results for all the stages of the insect.
- 2.—The second stage is to stop all control measures during the most favourite breeding time of the mosquito. During this period extensive search for the mosquito and larva has to be made. If no positive results are found, one can say that the mosquito has been eradicated.

An eradication campaign requires that the infested area is divided into small zone s

Each zone is in the responsibility of one man and the results in the zone are

considered positive whether one larva or mosquito or a thousand are found.

In 1943 a detailed scheme was submitted to the Ministry and a credit of L.E. 332,300 was approved.

Through the Middle East Supply Center and Lend Lease, four and a half million tablets of Atebrine, 53 tons of Paris green and 2 tons of Pyrethrum extracts were obtained.

Moreover, Military Orders were issued providing measures to be taken against breeding places of A. gambiae, disinfestation of all means of transport between the infested and the non infested areas and restrictions on rice cultivation.

In addition, a training school was established at the Research Institute and Endemic Diseases Hospital for doctors, engineers and subsidiary personnel who were engaged in the Gambiae Campaign. Field Training was also given at Assiut, Girga. Qena and Aswan for the local personnel engaged in field work.

# Coordination of the Work of the Section

While preparations necessary for the Anti-Gambiae Campaign were being made, steps were taken with a view to the co-ordination of the efforts whether within the Malaria Section or between the Section and the other Ministeries and Departments having a relation with the Campaign work, such as the Ministries of Public Works, Supplies, National Defence and Communications, or between this Ministry and the British and U.S. Forces. The year 1943 was distinguished by the fact that the principles on which the Campaign

and eradication work were based, were being formulated. Though naturally the plans for combating were not up to perfection yet the work so far achieved formed a nucleus which grew and developed gradually until the fir al result was reached. The following is a statement of the steps taken during the year 1943.

#### Boards.

Reference has already been made to the meeting of the Joint Malaria Commission and the formation of Provincial Sub Committees in each of Upper Egypt Provinces. In this Ministry a Committee was constituted for the eradication of Anopheles gambiae.

## Reinforcement of the Malaria Section.

The first thing that received attention was the reinforcement of the Malaria Section so as to be able to perform its duty satisfactorily. At the termination of the year 1943, the number of Malaria Stations depending on the Section was increased to 54, the number of Medical Officers to 64; Engineers to 4 and assistant engineers to 39; 66 Sanitary Moawens were attached to the Section; the number of overseers was increased to 509. Naturally all the increase was allotted to the infested zones. In the interest of the work, the headquarters of the campaign was located in Assist City.

## Organization of the Campaign.

The scheme was formulated on the same lines as those adopted by the Brazilian Government in regard to the epidemic referred to above, with certain alterations to suit the local conditions of living, agriculture and climate. The Joint Malaria Commission, at its meeting of May 26, 1943, approved that scheme. This Commission includes Members representing the various Scate Departments and Ministeries as well as others from the British and American Army Medical Services.

The field which extended from southern boundaries of Nubia to the northern borders of Assiut Province, was divided into small zones, the areas of which were about 12 square kilometers each. This was called "darak". The darak is the unit of work in the mosquito eradication campaign. These should be uniform so that all statistics could be compiled and easily compared. The total number of these 'darakat" at the end of the year 1943 amounted to 245 distributed over 17 Malaria main stations and 18 Malaria Sub-Stations, according to the nature of the locality and the severity of the epidemic. (Chart No. 3):

P.M.O.'s and second M.O.s. were nominated for these Stations, and each "Darak" was provided with an adequate number of Mulahezeen (Overseers) for control and treatment. They were provided with special forms with detailed information on the work they undertake. These were collected and sorted out in a special statistical office at the Headquarters.

## Engineering works.

Mosquito control involves engineering works on a large scale, but eradication does not rely much on these works. Yet much ergineering work was done during the year 1943, by this Ministry as well as by the Ministry of Public Works, and the Egyptian State Railways Administration. Each of these administrations proceeded with the disposal of mosquito breeding places within its territory whether by filling in, draining, or clearing. Thus during the year 1943 it was possible to get rid of birkas of an area of 2,000 feddans, out of a total of about 10,000 feddans of ponds extending all over Egypt. Most of the railway burrow pits especially in Upper Egypt were also disposed of during the year.

As the disposal of birkas, and other water collections by engineering methods requires a considerable time which fact is prejudicial to the eradication process, only such engineering work as directly related to eradication was done. This comprised:—

## 1.—Preparation of Maps and Charts.

A special office was instituted for the preparation of survey maps of infested zones, showing administrative and geographical divisions as well as permanent and temporary breeding places. These maps proved of great value to the work. This Office also marked gambiae breeding places on the maps and prepared charts and other statistics.

## 2.—Construction of Roads.

Among the difficult problems encountered at the start of the work was the absence in the infested zone of proper roads which are indispensible for easy and rapid access of staff and supplies to the breeding places. In conjunction with the Roads and Bridges Department, the Engineering Office planned a network of roads, and began their construction in the order of their importance.

## 3.—The Shutb Swamp.

This swamp lies to the south of Wadi Kom Ombo estates but, being of a much lower level, it forms a drain for irrigation water. This swamp is about 60 feddans wide and three kilometers long. During the flood season, it forms an extensive birka, but it becomes marshy with a depth of about 60 centimeters during the dry season, thus providing most suitable breeding places. The situation was remedied by creating artificial drains and paths to facilitate dusting. Eucalyptus trees were cultivated on the edges, to help the process of drying. Finally steps were taken to fill it in by earth from the surrounding hills.

## Reliet Work.

This implied feeding, clothing and improving living conditions of patients, which had a direct bearing on the quick recovery of patients, and the reduction of deaths and relapses. Due attention was therefore given to relief work since the appearance of the disease until it totally disappeared. It was undertaken by the Ministeries of Supplies and Social Affairs and the Charitable Institutions of Mohamed Aly Foundation and the Red Crescent Society, with the help of the Egyptian Army and the local Police officials, in conjunction with the Ministry of Health.

Amongst other measures taken, food products were banned from export from infested localities, rations were increased and extra provisions, clothes and bedding were issued to destitute patients.

#### THE EPIDEMIC IN THE YEAR 1943

Prevalence of Gambiae Mosquitoes.—By the end of 1942 it was evident that the mosquito was present between Ballana in the South, and Manfalout in the North. With the progress of the work and the increase of surveyors who were distributed all over the field a more vivid picture of the prevalence of gambiae mosquito was made. A. gambiae propagates twice a year. Early during the first prepagation, it was located in Aswan, Kom Ombo and Edfu districts. Later, it was located in Qena province only to subside during the summer months. During the second propagation, however, the mosquito was present everywhere as far south as Abnoub. Its prevalence was severe in Aswan, Kom Ombo, Edfou, Qena, Deshna, Akhmim and Suhag.

Prevalence of Malaria Cases.—In spite of the presence of the mosquito everywhere, the prevalence of the disease in epidemic form was restricted during the year 1943, to Qena Province, not to mention the 1942 epidemic wave which continued in Aswan during

the early part of the following year. Hereunder is a statement giving the quarterly statistics of cases and deaths of Malaria in the four southern provinces during the current year:—

0	Aswan		Qena		Gir	ga	As	Remarks	
Quarter	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Lemarks
1st	3,261 171 79 142	155 54 30 314	669 97 902 3,793	2 5 4 649	66 7 69 72	1 5	45 11 79 17	1 — — 1	
Total	3,653	553	5,481	650	214	6	152	2	

Assuming that statistics were estimated on the basis of the general increase in deaths, and considering that the mortality rate of malaria was 5 % — treatment and relief having reduced considerably the death rate—the number of casse would amount to 72,000 in the four provinces.

Mosquito Control.—Control activities were extended in proportion with the number of personnel available, viz:

(1) Quarantine Measures.—The disinfestation of all aeroplanes arriving from the south at the last air port before departure for Egypt and gain at the first landing in Egypt. Further, the crew of the aeroplane were required to disinfest the plane during flight.

In addition all river craft bound northwards were disinfested at the Egyptian-Sudanese borders. Sudan Government steamers were sprayed with insecticides before leaving Wadi Halfa, and twice on their way to Shellal.

- (2) Neutral Zone.—After the advance of the mosquito was stopped near Assiut, efforts were concentrated in providing a "barrier" to prevent the escape of the mosquito from the infested zone to the free zones in the north. The northern part of Assiut Province, beyond Assiut town, formed the barrier. The object of this barrier was not only to destroy mosquitoes existing therein but also to render it unpenetrable for the mosquito.
- (3) Segregation of the mosquito within the infested zone.—Steps were taken to segregate the mosquito within the grossly infested places. It was found necessary to spray with insecticides railway coaches at Edfou, Girga, Assiut, Wasta, motor cars at Dishna, El Khazindaria, Assiut and Afwa (Giza) and river craft near Aswan, Naga' Hamadi, Esna and Assiut Barrages.
- (4) Eradication of the mosquito.—Breeding places were sprayed with oil or dusted with Paris green. The adult mosquito was not combated within houses except in some villages where the epidemic was very severe. In 1943, 1650 tons of oil and 50 tons of Paris green were consumed. The maximum number of workmen employed in mosquito control during 1943 was 1597. Though the appointment of workmen does not necessitate a special experience, yet the number of workmen was restricted by the number of the overseers who could be trained and engaged in this work.

#### Treatment.

Treatment during 1943 was part of the duty of Malaria Stations, but was undertaken by other than control personnel. As the disease and its cause were known, blood specimens were seldem taken for examination. The clinical symptoms being sufficient for diagnosis. Distribution of malaria drugs was unrestricted; the drugs being useful for prophylaxis and treatment.

A total of 4,749,852 tablets and 672 kg. of quinine powder and other drugs were distributed during the year.

The situation at the end of 1943.

The year 1943 ended with the Gambiae mosquito still prevalent everywhere in the zones already infested; but far-reaching results were achieved, namely:—

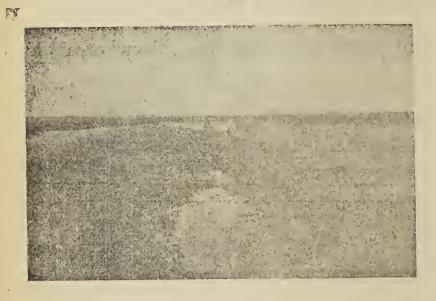
- (1) The mosquito was halted at the south of Assiut town and prevented from escaping northwards to the non-infested districts of Egypt.
- (2) The malaria epidemic was segregated within a narrow area about one-fifth of its size at the end of 1942.
- (3) Organization of the work and provision of manpower so that the future is looked upon with confidence.

CHART No. 1



A. Gambiae

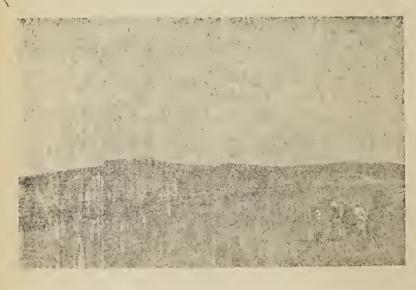
# PREFERABLE BREEDING PLACES OF A. GAMBIAE



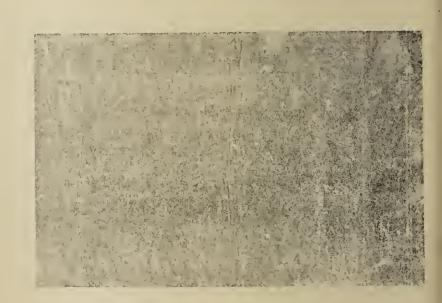
Shallow drain ending in River Nile



Sandy bank of River Nile



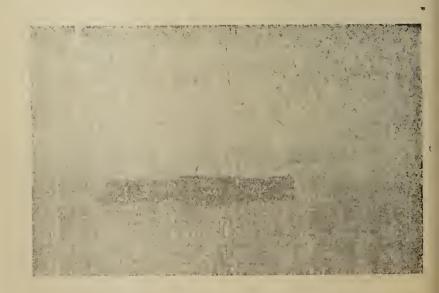
Side channel "Khor" of River Nile at Nuba



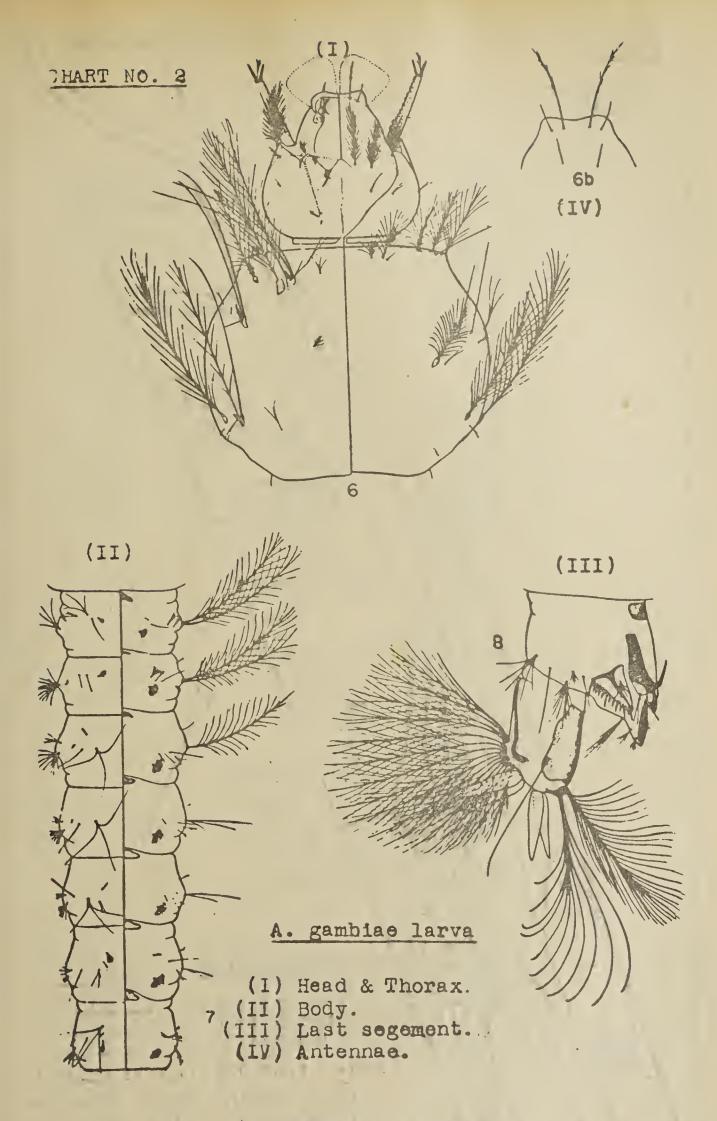
Shallow, clear seepage water



Motor beat "Koreskow" used as a Mobile Center for treatment and control work in Nuba



River transport between Wadi Halfa and Aswan
The main way of transport in this area



(after Causey and Cerqueira

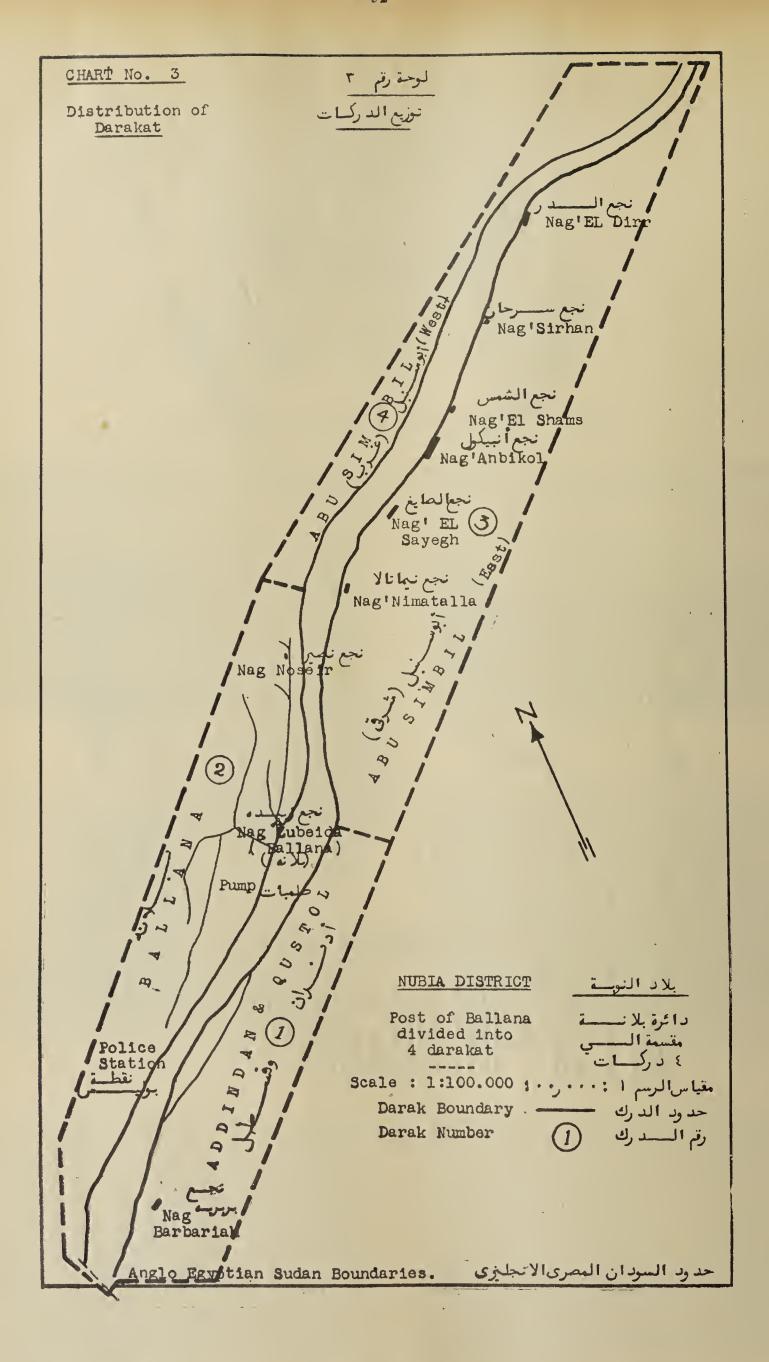


CHART NO. 4. - DAWAYIR INFECTED WITH A. GAMBIAE DURING YEAR 1943

(Monthly Distributed)

	MONTES	January	February	March	April	May	June	July	August	Septemben	October	November.	December
	JuisaA		-					<u> </u>				<b>(10)</b>	
	ğij ngy	İ	1	-	1	1							483
	jashad	1. "	1	1	1	1.	-	1.		f :	1	(3)	
	Range	1		7	1	_	1	1-				(6)	(%)
	Seyng					Ì						<b>(1)</b>	
	mim1A&		1	1							1	(8)	
	адтіЮ			1	1						(49)		
	anailad	1	İ	1	1	1	1	1	-				
	Abu Shousha			1	1	(8)	1	100					
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	Ballana				r.50				İ			0	0
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Weekly Zone Chart for Ballana Dairah (Sample zone chart of whole infested area to show positive darakat with A. gambiae).

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# Chapter XVI.—BILHARZIA SNAIL DESTRUCTION

#### I.—INTRODUCTION

During the year 1943, while continuing an intensive Snail Destruction campaign in Fayoum Province, the Section extended its work to Giza Province and the Dakhla Oasis. The methods of work adopted for the Destruction of the Snail hosts of Schistosomiasis were organized and standardized and the staff necessary for the expansion of the work was trained.

#### II.—METHODS OF WORK

The work of the Section consists mainly in:

- (1) The Survey of streams for the snail hosts of Schistosomiasis. The location and number of snails in a stream is determined by making stations along the stream. At each station 3 dips are taken by net and the snails collected are recorded in the survey books together with notes on the dimensions of the stream, weeds, etc.
- (2) The Treatment of the streams found to harbour bilharzial snails. Two modes of treatment are employed:
  - (a) Clearance by mechanical methods. At low water the vegetation is removed by hoe and hand and the floating snails, debris and a top-layer of ooze harbouring snails are dipped out by net.
  - (b) Sulphation by means of copper sulphate which is applied in concentrations varying from 15-30 parts per million and left to act for a few days.

Then a "Survey after Treatment" is made to check the results of operations.

### III.—PROGRESS OF THE CAMPAIGN IN THE FAYOUM

In 1941-1942 the Province was divided into small areas and the streams surveyed or snail carriers. Since then the whole province has been treated twice. The last survey was by far the most complete including small branches. As a result the total number of streams examined was much higher than that of previous surveys, yet the infection with *Bulinue* was decidedly lowered due to clearances and sulphations in the streams during this period. Results are given in Table No. 82.

TABLE No. 82.—FAYOUM PROVINCE

Survey	No. of Streams surveyed	No. of Streams infected	Dry	Negative	Length infected in kms.	Ratio of infected to surveyed streams
1st       1942           2nd       1942           3rd       1943	29,650 44,032 67,573	6,806 4,996 <b>5,</b> 318	2,272 23,662 22,362	15,375	4,618.891 3,005.612 3,588.661	22°/ <sub>o</sub> 11°/ <sub>o</sub> 8°/ <sub>o</sub>

#### IV.—CAMPAIGN IN GIZA PROVINCE

Encouraged by the remarkable success in the Fayoum, the work was extended to Gîza Province, partly because most of the Province is irrigated by Gîza main canal which is a branch of Bahr Youssef, and also because of transport facilities and easy supervision and control by the staff of the main office in Cairo. The Province was divided into 14 areas of 5–10,000 Feddans each. Every area is staffed by a mobile unit consisting of an overseer and several heads of gangs and snail collectors. The overseers are living in their areas in tents which are moved according to the needs of the work and cover their area twice yearly. The divisions were made in conformity with the boundaries of the Irrigation Department.

The first survey of the Province was started in February 1943 and followed up with an intensive treatment of the infected streams. Table No. 83 gives the results of the surveys before and after treatment.

		1			1		
Survey		No. of Streams surveyed  No. of Streams infected		Negative	Dry	Length infected in kms.	Ratio of infected to surveyed streams
Before treatment, 1942	•••	4,111	1,616	2,475	254	1,745.187	39º/o
After treatment, 1943	• • •	7,236	1,604	5,882	293	1,243.937	22 <b>º/o</b>

TABLE No. 83.—GIZA PROVINCE

It is to be noted that the number of streams surveyed after treatment in 1943 was far in excess of those surveyed the first time due to better training of the personnel. Even so the ratio of the infected streams to those surveyed fell noticeably. Moreover the snail population of streams marked as infected was considerably reduced.

#### V.—RESEARCH

A number of experiments and environmental studies bearing on the destruction of snails were worked out and the results were applied in field-work. Following results were obtained:

- (1) It was found that there was a seasonal variation in the number of fresh water snails; investigation showed that there were two peaks a year, one in May, the other in December, and two reproductive periods one in spring, the other in autumn. At the time of the Nile flood the snails begin to die in great numbers. Reproductive activities stop temporarily during the winter closure. On the return of the water, the snails revive and start egg-laying in large numbers.
- (2) Observations on the correlation between the location of snails and the nature of the streams during the winter closure revealed that the snails hibernate at the bottom of branch canals and accumulate in such numbers at pipes and potholes that it is made a regular practice to clean these out during the winter closure.
- (3) On account of the scarcity of snails in some main canals and drains attempts to catch snails by nets often failed. Palm leaves proved very convenient traps for determining the extent of the infection and the role of those canals in restocking smaller canals.

#### VI.—WORK IN DAKHLA OASIS

A mission was sent to Dakhla Oasis to study the effect of previous anti-bilharzial measures in the village of Rashda and study the general situation in other villages. The infection in Rashda was found to be reduced but not eradicated. Many other villages had Bulinus snails and Schistosomiasis. It was found that in many localities no cattle could be raised due to the prevalence of liver-fluke (Fasciola) infection and large numbers of Limnaca cailliaudi snails, the intermediate host of Fasciola. A permanent unit for complete survey and control of all the springs and wells was formed and is now operating in the Oasis.

## Chapter XVII.—LEPROSY CONTROL

Abu Zaabal Leprosy Colony.

Being the only colory of its kind in Egypt for the accommodation and treatment of lepers and at the same time providing them with agricultural and industrial training and other means for leading an ordinary and useful life, particular attention was paid this year for its re-organisation with a view to attaining the object of its creation and in the meantime to keep pace with similar institutions abroad.

It can be safely stated that wide strides have been made this year towards perfection. The colory is not, as may be presumed, intended for the isolation and treatment of lepers only. It is intended to provide lepers with an environment where they can live a normal life pursuing their individual occupations and thus be a self supported community. To achieve this end, the following arrangements were made:—

- (1) Four cows were purchased as a nucleus of a dairy which will ultimately supply residents of the colony with the necessary milk and thus dispense with supplies from outside.
- (2) Farming has been so organised that vegetables can now be produced throughout the year in just sufficient quantities to meet the requirements of the inmates.
- (3) Bakeries have been built within the colony which when operated will supply the colony with a good quality home made bread.
- (4) The drainage system constructed late last year is now in operation disposing of the colony's sewage. Arrangements have been made to turn this into fertilisers.
- (5) The different workshops within the colony are now under close supervision and in regular production.
  - (6) New roads have been levelled within the colony and around staff quarters.
- (7) More entertainment and amusement were provided to the inmates particularly on religious events, e.g. the Prophet's Birthday, when able lepers were authorised to practise religious rites.
- (8) Funds were provided for the purchase of books, religious and otherwise, for the library. A stage was constructed from funds made available for the purpose.

92 new lepers were admitted to the colony during the year. The number of inmates at the end of the year was 350. Survey of patients at the close of the year showed that 215 lepers improved clinically and bacteriologically. Almost all of these undertook one sort of manual work or another, e.g. farming, landlevelling, etc., which fact demonstrates that manual work has a direct effect on the general improvement of the lepers' condition.

16 lepers deteriorated. These did not carry any kind of work either for being crippled, old or blind.

The condition of 119 lepers remained stationary. Most of them were incapable of doing any kind of manual work.

## Cairo Leprosy Hospital.

Of 259 new patients presenting themselves to the hospital during the year for examination, 199 were returned positive for leprosy. The remainder suffered from other skin diseases and were referred to the competent hospitals.

It is the practice of the hospital to ask out-patients to bring their contacts to the hospital for examination once every three months. Of 74 contacts examined during the year, three developed leprosy.

A total of 198 female lepers were in isolation in the hospital during the year. As this number is in excess of the hospital accommodation, special arrangements had to be made for their isolation.

Survey of the in-patients at the end of the year showed that 102 lepers improved, 41 remained stationary and 15 deteriorated.

This hospital has three out-patient clinics annexed to it, namely:-

- (1) Embaba. This was started on February 4, 1939, and is open for treatment on Saturdays: 29 new patients and 2,658 visits were recorded during the year.
- (2) Kara Midan: was started on November 15, 1939, and is open for treatment on Sundays and Wednesdays. During the year, 115 new lepers and 7,110 visits were recorded.
- (3) Kaliub. This was started on February 4, 1941, and is open for treatment on Tuesdays. 21 new lepers and 2,811 visits were recorded.

Of 125 out-patients examined by the hospital, 78 lepers improved, 28 remained stationary and 19 deteriorated.

## Out-Patient Clinics.

Besides the Abu Zaabal Leprosy Colony accommodating male lepers and the Cairo Leprosy Hospital accommodating fen ale lepers, there are eight out-patient clinics in Zagazig, Tanta, Alexandria, Mansoura and Shebin el Kom in Lower Egypt and at Suhag, Minia and Qena in Upper Egypt.

The following table No. 84 gives details of all the leprosy clinics and branches and number of lepers on record of each up till end of 1943.

			1				
	Name	o of clinic			Date of opening	Number of Lepers on record till end of 1943	Name of Branch Clinics
Zagazig	Lepro	sy Clinic	• • •	• • •	5- 4-1930	862.	Abu Hammad, Shebin el Kanatar, Mashtoul, M na el Kamh and Abu Kebir.
Suhag	22	,,			28- 4-1930		Tema, Grga, Tahta and Aklmim.
Tanta	,,	,,	•••		2 <b>2-</b> 2-1931	1,555	Mahalla el Kobra, Zifta, Kellin and Kafr el Zayat.
Minia	"	"	•••	•••	10- 6-1931	984	Beni Mazar, Abu Korkas, Samallout and Mellawy.
Alexand	ria ,,	,,	• • •	• • •	<b>17-</b> 1-1938	322	
Mansou	ra ,,	,,	•••	• • •	15-10-1938	677	Damietta, Simbellawen, Sherkin and Deker-
Shebin e	el Kon	Leprosy	Clinic	•••	25-10-1938	602	mes. Menouf, Ashmoun, Quesna, Benha and Ba- tanon.
Qena Lo	eprosy	Clinic .:	• •••	•••	4- 2-1941	337	

\* TABLE No. 84.

There are, in addition, three in-patient departments annexed to Tanta, Minia and Qena leprosy clinics for the isolation of such lepers as require constant supervision of whose conditions render them incapable of attending on treatment days. The number of lepers isolated in these departments at the end of the year was 20, 39 and 9 respectively.

M.Os. and nursing staff usually travel between the clinic and branch clinics in ambulances specially equipped for examination and treatment purposes.

## Number of Patients.

Of a total of 1,488 patients attending all leprosy units during 1943, 771 were returned leprous as compared with 1,586 patients and 825 lepers in the previous year. The remainder were found suffering from other skin diseases and were referred to competent hospitals for treatment.

The total number of patients who were examined by the leprosy units since leprosy control was started in March 1929 up till the end of 1943 was 22,072 of which 10,750 were found suffering from leprosy. It was discovered, however, that 2,626 lepers were recorded in more than one clinic following the change of their residence. This leaves 8,124 lepers proper on record.

#### Treatment.

Besides treatment for leprosy, lepers also receive treatment for any other disease from which they may be suffering, e.g. parasitic diseases, venereal diseases, etc. An ophthal-mologist and a dentist pay Abu Zaabal colony and Cairo Leprosy Hospital weekly visits for the treatment of lepers.

Hydnocarpus oil was used this year in the treatment of leprosy. It was given in initial weekly doses of  $\frac{1}{2}$  c.c increased by half a centimeter every week until a maximum dose of 5 c.c. is reached which is then maintained. Good results were obtained by the use of this oil.

Where surgical operations are required by the lepers, these are performed by the medical officers of the colony and Cairo hospital. Eye and dental diseases are treated by ophthalmologists and dentists who pay weekly visits for the purpose.

TABLE No. 85.—GIVES THE NUMBER OF NEW PATIENTS WHO ATTENDED THE LEPROSY UNITS DURING THE LAST FIVE YEARS AND THE PRECENTAGE OF POSITIVE CASES IN EACH YEAR.

		Y	oar				No. of new patients	No. of positives for leprosy	Percentage
1939	•••	•••	•••	•••	•••	•••	2,198	1,059	48%
1940	•••	•••	•••	•••	* * *	• • •	2,298	995	43%
1941	•••	•••	•••	•••	•••	• • •	1,387	<b>72</b> 8	52%
1942	***	•••	• • •	•••	•••	•••	1,586	825	52%
1943	•••	•••	•••	• • •	•••	• • •	1,488	771	52%

TABLE No. 86.—GIVES THE MONTHLY NUMBER OF PATIENTS WHO ATTENDED
THE LEPROSY UNITS IN 1943.

		N.	fonth	4				Mumber of patients			Montl	1				Number of patients
January February		• • •				• • •	•••	93 113	July	•••	* * •	• • •	• • •	•••	• • •	145 106
March April	• • •	• • •	•••	• • •	• • •	• • •	• • •	111	September O toler			• • •	• • •	• • •	•••	87 134
n /r		• • •		•••		• • •	• • •	176	November December		• • •	•••	•••	•••	• • •	63 . 80

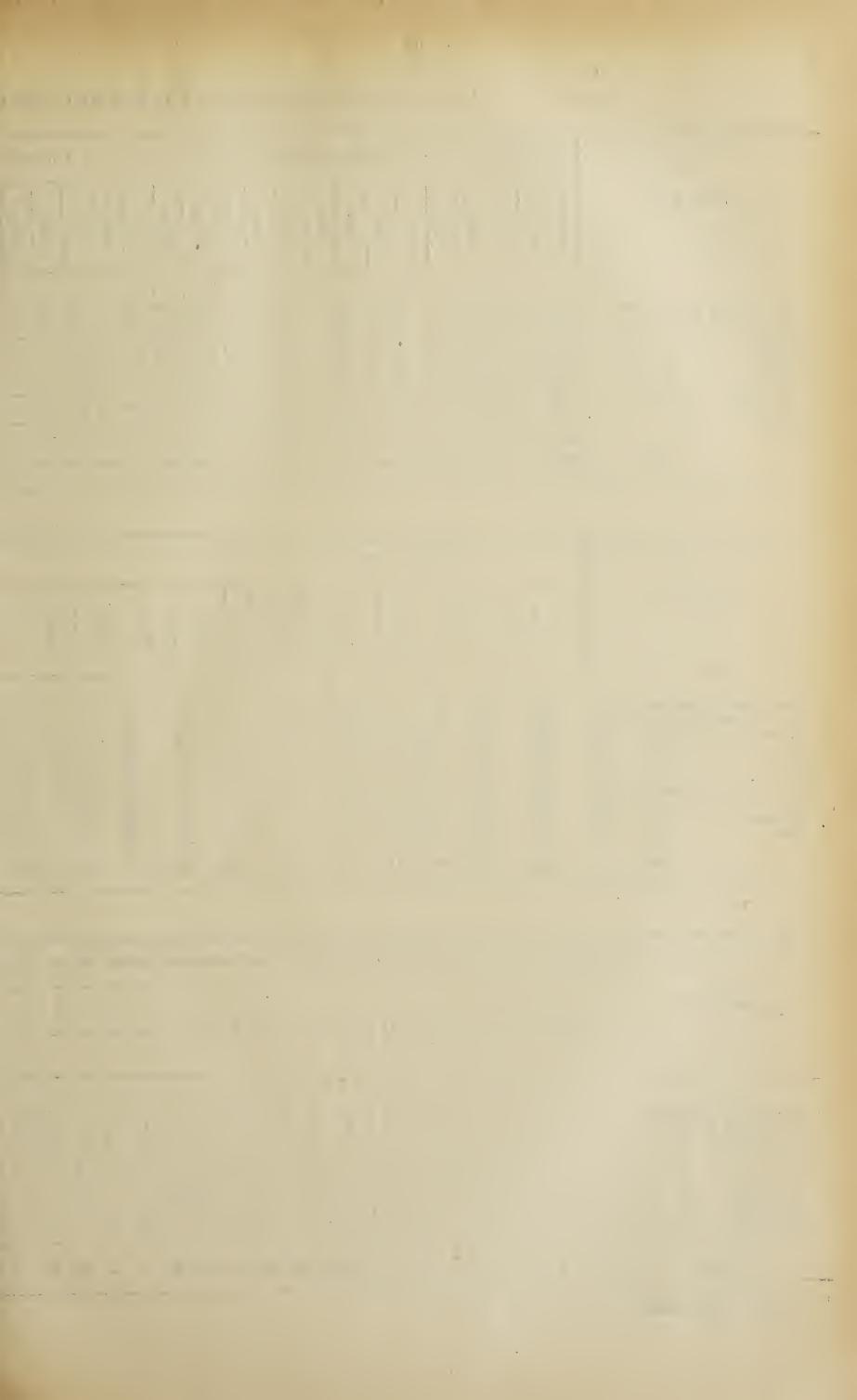


TABLE No. 87—Annual Report on Statistics of Lepers who attended

		sties of tients		G	eneral N	lotes	on L	epers							T	ransm	ission	of
Name of Unit		No. Neg.	7	9	Md. Bach.	Egypt.	Forg.	Mohd.	Cpt.	O. Relg	D. inf.	Qd. inf	Fog. inf	Fam: inf	Ţ	M	Par.	Hus.
Abu Zaabal Leprosy Colony Cairo Leprosy Hospital Zagazig Leprosy Clinic Suhag ,, , Tanta ,, , Minia ,, Shebin el-Kom Leprosy Clinic Alexandria ,, , Qena ,, , Total	259 42 143 230 344 85 104 100 89	92 60 199 4 38 75 68 156 74 274 70 10 75 50 54 44 56 44 45 717 771	55 52 37 40 35	61 13 22 19 15 23 17 16 10	34 58 84 115 13 25 36 32 26 48 34 36 36 39 16 38 21 35 27 18 3:3 444	199 38 68 74 70 75 54 56 45		81 184 37 57 74 46 72 50 56 39	8 15 1 11 -24 3 4 -6		73 146 31 46 63 61 66 45 51 36	7 22 11. 9 9 9 5	19 - - - - 45 -	14 34 7 22 11 9 8 9 5 9	$\begin{bmatrix} 6 \\ 2 \\ - \\ 3 \\ - \\ 3 \\ - \\ 2 \\ - \end{bmatrix}$	- 3 - - 1 1 1 - 1		

			Durat	ion of D	iseas <b>e</b>							
Name of Unit	l year	2 years	3-5 years	6-10 yerrs	11-15 years	16-20 years	20 and more	Neg. B.	Pos. B.	Nose	Skin	N and S.
Abou Zaabal Leprosy Colony Cairo Leprosy Hospital Zagazig Leprosy Clinic Suhag ,, Tanta ,, ,, Minia , ,, Shebin el Kom Leprosy Clinic Alexandria ,, Mansoura ,,	4 62 8 13 27 8 16 19 5	14 42 6 13 21 27 27 27 5 16 5	37 53 21 34 18 18 21 16 31 25	31 28 3 7 4 13 6 13	2 8 - 2 2 1 - 1	3 6 -1 1 1 2 1	1 - - 1 1 2 - 1	35 101 5 23 37 38 22 18 11 23	57 98 33 45 37 32 53 36 45 22	1 3 - 21 7 - 18 9 26 8	2 11 3 4 12 4 2 -	54 84 32 21 26 20 31 25 19
Total	169	176	274	115	16	15	6	313	458	93	42	323

	<b>C</b> . <b>C</b>	lov.	Alex	k. G.	Dan	n. G.	Can	al G.	Suez	Gov.	Beh	era	Gha	rbia	Mene	ou fia	Daka	hlia	Sha	rkia	Kali	ubia
Name of Unit	B,	ж.	B.	R.	B.	æ.	B.	R	Ä	R.	B.	R.	B,	R.	ä	R.	B.	R.	B.	R.	B.	R.
Abu Zaabal Leprosy Colony Cairo Leprosy Hospital Zagazig Leprosy Clinic Suhag ,, Minia ,, Minia ,, Sh.el Kom ,, Alexandria ,, Qena , Total	2 8 - - 1 - - - - 1	8 56 - - 2 - - -	1 - - 1 - 3 - - 3	18 - 19						2	3 - - 1 - 10 - - 14	3 1 - 1 - 10 - - 15	9 26 1 - 47 1 - 25 9 -	10 23 - 49 - 26 10 -	9 21 — 10 — 56 1 — 97	8 14 — 8 — 56 — — 8	5 11 5 -11 - 3 43 - 78	7 9 5 — 11 — 43 — 75	5 8 21 - 2 - - 2 - 2 - 38	5 7 22 - 2 - 2 - 2 - 38	11 30 11 — — — — — — — —	10 26 11 — — — — — — — — — — —

# AND WERE TREATED IN LEPROSY UNITS DURING 1943

Infe	ection			Clas	sifica	tion	Age	of ]	Pt. or	ı first	exan	ninati	on				Âge	on al	pear	ance	of th	e dis	ease			
W.	S. and D.	B. and S.	Rel.	Cu.	N.	Mix.	From 1-10	11-20	:21-30	31-40	41-50	51-60	60; and More	Foom 1-5	6-10	11-15	16-20	21-25	26-30	31-35	*36-40	41-45	46-50	51-55	26-60	60 and more
	- - 1 - 1 - 1 1 4	10 14 1 10 3 4 -6 1 2	2 9 3 6 4 3 5 2 - 6	17 26 1 — 13 — 6 3 3 2	5 42 44 36 39 24	39 70 32 26 17 34 30 27 17 15	1 9 5 4 5 2 2 1 3 -	22 57 15 23 29 17 23 15 28 9	33 72 12 18 21 26 17 26 13 7	2;3 36 4 8 12 12 16 5 9 16	7 19 2 8 3 9 11 6 3 4	2 2 7 - 3 3 1 - 5	1 4 1 3 - 4 17	-4 2 -2 - - - - - - 8	3 13 3 9 5 6 6 3 7 1	21 32 11 12 14 8 11 11 17 5	21 40 7 9 23 18 13 14 10 6	10 8 9 11 6 3	12 25 2 10 7 11 8 7 6 5	8 17 3 4 6 5 10 2 4 13	5 1 6 6	3 8 1 1 1 4 4 4 4 7 2	2 4 1 6 2 - 3 1 2 1	1 - 4 - 3 3 2 13	1 3 - - 1 1 1 1 - 1 8	3 - 3 - 1 - 3

										Notes	on th sp of Le	ecial trea	atment
Gen. No.	No. Neg.	No. Pos.	No. R.R.	No. Pos.	No. in Seg.	No. Prs.	No. Abs.	No. Pts Tel	No. Drg.	Number	Amount	Number	ter
998 6,170 2,007 3,550 3,754 2,082 916 817 1,018 760	3192 1,145 2,115 2,199 1,098 314 495 341	998 2,978 862 1,435 1,555 984 602 322 677 337	832 394 173 113 291 94 265 95 311 58	166 2,584 689 1,322 1,264 890 337 227 366 279 8,124	350 198 — 20 39 — — — 9	16,884 22,870 6,468 13,346 8,795 8,427 10,144 4,322 7,377 5,045	126,957 37,546 59,869 70,290 41,149 19,346 4,268 26,304 11,192 396,921	12,862 22,671 6,430 13,278 8,721 8,427 10,069 11,259 7,321 5,000	65,724 85,871 3,895 4,980 11,062 24,365 10,534 2,170 4,154 1,528	12,862 21,125 6,468 13,307 8,639 7,832 9,872 74,286 7,372 4,933	59,372 71,223 32,118 65,749 30,317 39,500 39,461 21,272 36,641 22,710 418,363		

-						L																			
~	Jiza	Beni	-Suef	Fa:	yum	Mi	nia	Ass	siut	Gi:	rga	Qe	na -	Asw	an	Siı	nia	W.D.	.Gov.	S.D.	Gov.	Ab	road	To	otal
ž.	R.	B.	R.	B.	R.	B.	R,	B.	R.	B•	R.	B.	R.	B.	R.	B,	R.	B.	R.	B,	N.	B.	R.	B.	B.
9422	_	5 11 — — 2 — — — — 18	5 8 - 2 - - - - 15	3 3 - - - - - - - - - - - -	3 2 - - - - - - - - - - - - - - - - - -	5 1 - 41 - - - 47	5 1 - 42 - - - 48	10 15 - 17 - 22 - 4 1 -	10 3 - 17 - 22 - - - - - 52	6 9 - 51 1 3 - 7 - 77	5 2 -51 1 2 - - -	5 11 - - - 1 - 45 <b>62</b>	3 1 - - - - 45 49	2 3 5	2									92 199 38 68 74 70 75 54 56 45	38

TABLE 88.—NUMBER OF LEPROSY UNITS SINCE 1929

		Ye	ar				Principal Units	Branches *
1929	•••	* •••	•••	•••	•••	•••	1	
1930	•••	•••	•••	•••	•••	•••	3	
1931	• • •	***	•••	•••	•••	•••	5	
1932	•••	•••	•••	•••	•••	•••	5	4
1933	•••	•••	•••	•••	•••	•••	6	8
1934	•••	•••	•••	•••	•••	•••	6	8
1935	•••	•••	•••	•••	•••	•••	6	10
1936	•••	•••	•••	•••	•••	•••	6	12
1937	•••	•••	•••	•••	•••	• • •	6	15
1938	•••	•••	•••	•••	•••	•••	9	15
1939	•••	•••	•••	•••	•••	• • •	10	21
1940	•••	•••	•••	•••	•••	•••	10	33
1941	• • •	•••	•••	•••	•••	•••	10	38
1942	•••	•••	•••	•••	•••	•••	10	39
1943	•••	• • •	•••	•••	•••		10	39

# Chapter XVIII.—SUMMARY OF THE WORK OF THE PUBLIC HEALTH LABORATORIES

## 1.—Bacteriological Section:

The total number of specimens examined bacteriologically in the Central, Provincial and Branch Laboratories, during the year 1943 was 516,118.

### 2.—Pathological Section.

1303 specimens were examined during the year under review in this Section.

#### 3.—Chemical Section.

The total number of samples examined chemically in the Central Laboratories Assiut and Tanta Chemical Laboratories, during the year 1943 was 101.959.

## 4.—Water Section.

### (a) Bacteriological Service:

The total number of samples of water, aerated water, ice and syrup examined by this section, during the year 1943 was 6484.

## (b) Chemical Service:

During the year some 599 Samples of water have been subjected to chemica analysis.

#### 5.—Antirabic Institute and Hospital.

During the year 1943—8045 patients attended the Institute. Out of these 7213 were fully treated.

#### 6.—Serum and Vaccine Institute:

(10) Anti-scorpion serum

The following vaccines an	nd sera h	nave bee	n prepared during the year 1943:-
(1) T.A.B		• •••	896,315 ccs.
(2) Anti-plague vaccine		••••	163,500 ,,
(3) Cholera vaccine		• •••	126,100 ,,
(4) Gonococcus vaccine			24,135 ,,
(5) Staphylococcus vaccine	**		12,580 ,,
(6) Typhus vaccine			4,000 ,,
(7) Diphtheria prophylactic (	Formol	Toxoid)	27,834 boxes—each box for one person
(8) Calf lymph vaccine			31,986,650 doses.
(9) Diphtheria Antitoxin		• • • •	388 ampoules, 7cc—containing 4000 Inter. Units.
•			2,823 ampoules, 10cc. 4000 Inter. Units. 800 ,, 10cc. 8000 ,, 800 ,, 10cc. 20,000 ,,

9,753 ampoules, 2cc.

# Chapter XIX.—SUMMARY OF THE WORK OF FOUAD I INSTITUTE FOR RESEARCH AND TROPICAL DISEASES HOSPITAL

4795 patients were admitted to the out-patients department for examination or treatment in the year 1943, out of which 3452 were males and 1343 females. Compared with previous years, the number is very small due to the engagement of doctors and specialists in combating malaria in Upper Egypt and training a large number of technical assistants in malaria work at the Institute.

For these reasons, no research work was done from February to September since it was only restricted to subjects concerning malaria and the mosquito which transmitted it in Upper Egypt i.e., Anopheles gambiae. The work in the hospital attached to the Institute was resumed in October.

During the few remaining months of the year, the following investigations were carried out:

#### I.—BII HARZIA

Treatment of Bilharzia with Stibophen was tried with special attention to the following points:

- (1) The curative power (efficiency of the compound).
- (2) The doses sufficient for treatment in relation to age or body weight.
- (3) Signs and symptoms which may occur during the course of treatment.

The compound was used in treating about 100 cases of Bilharzia either urinary or intestinal or both. Some of the cases had other parasitic infections in addition to Bilharzia. Patients of different age groups and body weights were chosen. The method used in the treatment was to give the patients one daily injection on five successive days. Examination of excreta began after the fifth injection. Further injections and examinations were done on alternate days, until cure from Bilharzia was obtained. Daily examinations after cessation of treatment were carried out for a week and then once weekly for a month if possible. The 1st injection was usually half the maximum dose which is 5 c.c for a patient above 60 kgs. body weight. Each of the subsequent doses was 5 c.c. also. The smallest total dose of 17 c.c. was given to a girl 8 years old weighing 20 kilogrammes, who took nine injections the first of which was 1 c.c. and each of the subsequent injections was 2 c.c.

The largest total dose (63.5 c.c.) was given to two patients aged 27 and 40 years and weighing 71 and 63 kilogrammes respectively.

It was found that the total amount of the drug given to all patients was 2000 c.c., and the total body weight of patients 2505 kilogra.nmes. Therefore the average dose per kilogramme body weight was found to be u.s c.c. But this average dose varies slightly with age groups and very slightly with sex as will be shown below:

## (1) Children aged 13 years or below:

Total amount of drug given	• •••	• • •	• • •			232	c.c.
Total body weight of patients		• • •	• • •		• • •	262	kgms.
Average dose per kgms. body weight		• • •	• • •	• • •	0.	886	e.c.

## (2) Adult females:

Total amount of drug given	• • •	•••	•••	•••		• • •	119	C.('.
Total body weight of patients	• • •	•••	•••	• • •	• • •	• • •	181	kgms.
Average dose per kgm. body weight		• • •	•••	•••	• • •	• • •	0.77	c. <b>c</b>

## (3) Adult males:

Total amount of drug given		 		 1,649	c.c.
Total body weight of patients					
Average dose per kgm. body weight	• • •	 •••	• • •	 0.75	c.c.

## Number of injections:

The number of injections required to effect an apparent cure varied between 5 and 15 as shown in the following table:

No. of	No. of
injections	· patients
	ļ
15	1
14	2
13	3
$\tilde{12}$	11
11	5
10	9
9	12
8	4
7	4
6	4
5	1

This shows that, in most of the patients, the number of injections varied between 9 and 12. An increase of the maximum dosage will be tried in another set of patients taking into consideration their physical fitness.

## Excretion of antimony by the kidneys:

Special attention was paid to the examination of the patients' urine to determine the extent of the excretion of pyrochatechin by the kidneys and the relation of the rate of this excretion to cure of bilharzia. In two cases traces of pyrochatechin was found in the urine, but nevertheless treatment was continued. It was observed that complications which occurred were very slight. Usually cases which are slow excretors require less dosage of the drug and are less liable to relapse, but are more prone to suffer from complications during treatment than the rapid excretors.

## Complications that occurred to some patients during treatment:

- (1) A patient complained of oedema of the face after the third injection (dose 3.5-5 c.c.). His urine was found loaded with albumin but there was no sugar or casts. The blood pressure was 120/75, excretion of pyrochatechin was very slight but urea clearance was satisfactory. The treatment was continued with no increase in complications and the patient was cured after the sixth injection.
- (2) A patient began to complain of vomiting after the fifth injection (dose 3.5-5 c.c.). The pyrochatechin excretion in urine was found to be very slight, but the liver function was satisfactory and icterus index normal. He was cured from bilharzia without further injections.
- (3) After the eighth injection of Stibophen, a patient with a ortic regargitation, history of rheumatic fever, positive Wassermann and Kahn tests and enlargement of spleen and liver began to complain of fainting sensation accompanied with tenderness in the liver area. He was given 15 gms. of glucose powder t.d.s. Treatment was continued. These symptoms disappeared gradually and he was eventually cured of bilharzia.

- (4) Two hours after the fourth injection, one patient began to suffer from tenderness in the loins. The pyrochatechin excretion was satisfactory. The pulse was 62 and the blood pressure 120/89. These pains disappeared after complete rest for two hours. Treatment was continued and the patient was cured without further complications.
- (5) After the third injection (dose 3.5 c.c.) one patient began to complain of giddiness. His pulse was 74. Pyrochatechin excretion was good and icterus index normal. Treatment was stopped because of the occurrence of these symptoms after each injection.

## SOME CASES OF BILHARZIA COMPLICATED WITH PULMONARY AND OTHER DISEASES TREATED WITH STIBOPHEN

Some patients with pulmonary diseases accompanying bilharzia were treated with Stibophen without the appearance of severe symptoms during treatment. The following is a summary of some of these cases:

- (1) A patient with a tuberculous focus in the right lung who was treated at Kasr-El Aini Hospital in the year 1939, came to the Institute complaining of right renal colic and had urinary bilharziasis. He was treated with Stibophen and was cured after the eighth injection. He did not complain of respiratory manifestations nor was there any abnormal rise in his temperature.
- (2) A patient had a tuberculous cavity in the apex of the right lung, his sputum was positive for T.B., and used to complain of asthmatic attacks. He had urinary bil-harziasis. He was cured after the ninth ir jection of Stibophen. During treatment he complained of increase of cough (specially during the right) and number of asthmatic attacks, but no abnormal rise of temperature occurred during the treatment.
- (3) A patient with non tuberculous cavitations at the bases of both lungs, complaining of numerous asthmatic attacks since 1 1/2 years before treatment, amounting to 10 attacks a day, having urinary bilharziasis. He was given Stibophen injections (0.2 to 3.75 c.c.). An increase in the number of attacks was observed amounting to 17 a day, but after ending the treatment by the tenth injection, the number of attacks declined to about 8 a day. Sputum increased to a noticeable amount but was found negative for bilharzia ova on repeated examinations.
- (4) A patient with a rheumatic organic murmur in the heart, one week after receiving a dose of oil of chenopodium in the in-patients, was treated with increasing doses of Stibophen (1—2—3—4 c.c.) and was cured after the ninth injection. No symptoms of intoxication appeared during the course of treatment except slight palpitation, two hours after each injection. His average pulse rate was 67.
- (5) A patient suffering from urinary bilharziasis was admitted complaining of right renal colic. His urine contained albumin, hyaline and granular casts, but radiological examination revealed no renal calculi in the urinary tract. His renal functions were as follows:

Urea in blood =36 mgms.

Urea in urine =67 97 50 40

Urea percentage = 0.9 1.6 2 2.2

Urea clearance 64 °/° of normal. Stibophen examination positive. Blood pressure 110/65.

No manifestations appeared during treatment and the patient was cured after the seventh injection.

The resu lts of treatment with this compound have been published in the Journal of the Royal Egyptian Medical Association (1944).

#### 11.—ASCARIS INFECTION

The chemical department of the Ministry of Agriculture prepared oil of chenopodium locally. A certain amount was sent to the Institute to test its efficiency in the treatment of ascariasis.

After proving its being non toxic to experimental animals, its efficiency was tested on patients. It proved to be as good as the imported oil. No toxic or unpleasant symptoms appeared during treatment. A special report was written on this subject.

## III. TAPE WORM AND HETEROPHYES INFECTION

Male fern was imported from Switzerland this year and the Institute prepared an extract which was used in treating a large number of patients harbouring Taenia and Heterophyes infections. The dose used ranged between 2 and 6 c.c. according to the weight of the patient. It was observed that most patients did not stand the maximum dose of this extract showing symptoms of circulatory failure one or two hours after ingesting the extract, but no deaths occurred. It was agreed that the maximum dose should not exceed 4 c.c. of this extract.

Using this 4 c.c. dose, it was found that all cases of Heterophyes were cured from one dose. Also a high percentage of patients harbouring Taenia got rid of their tape worms provided that they were well prepared before treatment.

#### IV.—ANCYLOSTOMA INFECTION

The Institute investigated the following problems on patients with ancylostoma anæmia:

- (1) Estimation of the amount of iron in the blood and serum before and after treatment.
- (2) Estimation of the amount of vitamin B1 in the blood and urine, and serum proteins to find out the relation between these factors and the anæmia which accompanies ancylostomiasis. This piece of research has been published in the Journal of the Royal Egyptian Medical Association, August 1944.

#### V.—DYSENTERY

### (1) Amoebic dysentery.

Several investigations were made on amoebic dysentery this year including (i) investigating the effect of emetine bismuth iodide on *Entamoeba histolytica* in cases of acute dysentery in a daily dose of one tablet weighing one grain, for six days to find out whether this treatment can replace emetine injections. Results of this treatment proved it to be insufficient to effect even an apparent cure.

Increasing the dose to two tablets daily for ten days was tried and proved to be efficient in all cases in which it was used.

## (2) Dysentery resulting from Balantidium coli infection.

A male deaf-mute patient, 15 years old, was found to have dysentery resulting from infection with Balantidium coli. He was complaining of tenesmus, diarrhoea and blood and mucus in stools. He was treated with sulphaguanil tablets, five grams daily for five days, and the causitive parasite disappeared on the third day from the beginning of treatment. Stools were negative for ten days after ending the treatment. The patient stopped coming for further examination. There was no evidence that this patient, coming from Assiut (Upper-Egypt), has come in contact with pigs.

#### (3) Bacillary dysentery.

The number of cases examined by the McConky's medium culture method for dysentery bacilli was 94. Eleven were found positive and the results were as follows:

Bacillus Flexner infection ... ... ... ... 6 cases
Morgan ... ... 6

Paracolon ,, ... ... ... 2 ,,

One of these cases was positive for both Bacillus Flexner and Morgan.

## Chapter XX-MEMORIAL OPHTHALMIC LABORATORY GIZA.

Throughout the year 1943, the Memorial Ophthalmic Laboratory continued to fufil the functions for which it was originally created, ramely to assist in the training of ophthalmic surgeons, to serve as a pathological laboratory for the many ophthalmic hospitals scattered throughout the country and to act as a centre for clinical and bacteriological research in ophthalmic diseases especially those peculiar to Egypt. It is therefore convenient to review the work of the year as follows:

## i. - Post-Graduate Training.

The staff of the Laboratory again took part in the post-graduate instruction of candidates for the Diploma in Ophthalmic Medicine and Surgery. This included clinical, surgical, pathological and bacteriological teaching which was supplemented by practical instruction.

## 2.—Pathological Section.

The routine pathological work of the Laboratory continues to increase steadily with the increasing number of patients treated in hospitals throughout Egypt. Many specimens of interest were encountered during the year and these will be reported upon fully in the Annual Report of the Laboratory.

## (3 Clinical Investigation.

There is no out-patient department in the Laboratory for routine eye treatment but only such cases as are recommended for special clinical investigation are accepted. During the year, many such cases were investigated and quite a number were of more than usual clinical interest. For further details those interested should refer to the Annual Report published by the Laboratory.

## (4) Research.

Subjects of clinical, therapeutic and bacteriological interest have received careful attention. Experiments on the treatment of acute ophthalmias by means of sulphonamide derivatives have continued with amazing success. This drug may well be regarded as of epoch-making importance to Egypt. Whereas in the past thousands of children were blinded annually as a result of ophthalmia, now no eye should ever be lost through this cause.

Research into the actiology of trachoma likewise continues to receive special attention. Some progress has been made but the peculiar difficulties connected with the problem are great.

This brief report merely outlines some of the activities of the Laboratory, so that those wishing to have further details should consult the reports published annually by the Memorial Ophthalmic Laboratory.

## Appendix I.—MEDICAL PERMITS

Table No. 89.—Showing the Number of Practitioners of the Medical and Allied Professions at the end of the Year 1943 as compared with that of the Year 1942

Propession			At the end of 1942	At the end of 1943
Medical Practitioners Veterinary Surgeons Dental Surgeons Dentists without diplomas* Pharmacists Asst. Pharmacists* Midwives	•••	 •••	3,913 461 493 127 1,007 336 691	3,968 481 502 126 1,037 335 716

<sup>\*</sup> No permits are now issued to persons of these two categories.

TABLE No. 90.—Showing the Number of Persons Authorised to Practise their Professions in Egypt during the last Five Years

Рво	Pessi	ON		<u> </u>				1939	1940	1941	1942	1943
Veterinary Surgeons  Dental Surgeons				•••	•••	•••	•••	$egin{array}{c c} 142 & \\ \hline 24 & \\ 20 & \\ 53 & \\ \end{array}$	113 38 11 46	139 8 13 45	158 29 13 45	115 28 10 43
Pharmacists Midwives	•••	•••	•••	•••	•••	•••	•••	15	44	45	43	25
Dayas   Green Permits   White Permits	•••	•••	•••	•••	•••	•••	•••	226 1	288   <b>2</b>	$\begin{array}{c c} 197 \\ 2 \end{array}$	19 <b>3</b>	<b>27</b> 6
Barbers	•••	•••	•••	•••	•••	•••	•••	2	5	9	3	11

Table No. 91.—Showing the Origin of Medical Diplomas the Holders of which were Authorised to Practise Medical Professions During 1943

Professions	Cairo	Alex-	Great Britain	France	Lebanon	Syria	Switzer- land	Palestine	Total
Medicine Veterinary Surgery Dental Surgery Pharmacy Midwifery	102 28 9 32 24			$\begin{bmatrix} & 3 \\ - & \\ - & \\ - & \end{bmatrix}$	- 4 - 1 - 1	_ _ _ _		_ _ _ _ 1	115 28 10 43 25

All those who were authorised to practise their professions during 1943 were of Egyptian nationality.

Table No. 92.—Showing the Result of the State Examinations held during 1943 for Medical Practitioners, Pharmacists and Dental Surgeons holding Foreign Diplomas for the purpose of obtaining Permits to Practise their Professions in Egypt.

Examination	Number	Egyp	tians	Forei	gners	Total		
DAMENTION	Number	Succeeded	Failed	Succeeded	Failed	Succeeded	Failed	
,								
Medicine	18	2	11	_	5	2	16	
Pharmacy	8	1	5		2	1	7	
Dentistry	14	2	ð	2	1	4	10	

## Appendix II.— MEDICAL COMMISSIONS

A total of 24,680 medical certificates were issued by the Central Medical Commission during 1943 or 1,545 certificates less than in 1942.

Of this number, 10,364 dealt with candidates for Government service or educational missions abroad. These consisted of 5,993 candidates for cadré or temporary posts, 6 for educational missions and the remaining 4,365 for hors cadre posts.

75.5% of the former group and 56.5% of the last group passed the examination successfully.

Of the 24.5 % failures of the first group, 17.2 % failed in vision—myopia accounting for the greater part; 4.5 % for defects of the urinary system—albumen or traces thereof being the main cause; 1.1 % for heart diseases—with incompetency of the heart as the cause; and 1.6 % for other diseases, e.g. varicoceles, hydroceles not treated or removed by operation, deformation, debility or respiratory diseases.

Of 10,239 government officials and employees reporting sick, 6,529 were cadré and temporary and 3,710 were hors cadre. Of those granted sick leaves by the Central Medical Commission or by Cairo Medical Officers of Health and approved by the Central Medical Commission, 2,893 of the former and 843 of the latter suffered from medical diseases and 1,178 of the former and 737 of the latter suffered from surgical or ophthalmic diseases.

TABLE No. 93.— Shows the Percentage of the Most Prevalent Diseases.

Diseases		Temporary cicials	Hors Cadre	e Employees
Diseases	Number	Percentage to the Total	Number	Percentage to
Nose and Larynx	154	3.70/0	36	2.30/0
Bronchi and Lungs	388	9.50/0	139	8.80/0
Heart and Blood Circulatory System	255	6·2º/o	50	3·2º/o
Stomach and Intestines	221	5.40/0	43	2.80/o
Liver	142	3·4º/o	22	1.40/0
Kidney and Cystitis	246	6.00/0	57	3.7°/o
Neurasthenia and Mental Diseases	123	4.0°/o	35	2·3º/o
Nervous System	112	2·7º/o	51	3.30/0
Anaemia and General Debility	476	11.60/o	156	9.90/0
T.B	120	2.90/0	54	3.20/0
Syphilis	7	0.20/0	11	8·70/o
Rheumatism	351	8.60/0	95	6.10/0
Fevers	210	5·1º/o	75	4.80/0
Other Medical Diseases	88	2.10/0	19	1.30/0
Eye Diseases	175	4.30/0	63	4.00/0
Ear and Dental Diseases	97	2.30/0	17	1.10/0
Appendicitis	31	0.70/0	12	0.80/0
Urinary System and Stones	41	1.00/0	20	1.30/0
Various Surgical Operations	527	12.90/o	392	24.90/0
Fractures	132	3·2º/o	156	9.90/0
Minor Surgical Operations (fistula, piles, hernia and				
hydroceles)	175	4.2%	62	3.9%

A total of 38,575 officials and employees were granted from 1 to 10 days sick leave by Medical Officers of Health in Kisms, Markazes and Out Posts in all the Governorates and Provinces. Of these, 39,085 or 79 % suffered from medical diseases, 6,034 or 16 % from surgical diseases and 1,956 or 5 % from ophthalmic diseases. The total days of sick leave granted to the Cadré and Temporary officials only amounted to 120,145.

1,196 cadré and temporary officials and 634 hors cadre employees in Cairo only were granted from 1 to 10 days sick leave by the Central Medical Commission or by Cairo Medical Officers of Health. 166 cadré and temporary officials and 103 hors cadre employees were examined by the Central Medical Commission but were not granted any sick leave.

624 cadré and temporary officials and 754 hors cadre employees were examined by other Provincial and Governorate Medical Commissions but were not granted any sick leave.

2,875 cadré and temporary officials and 946 hors cadre employees were granted from 11 to 30 days sick leave and over by the Central Medical Commission and by Cairo Medical Officers of Health.

The Central Medical Commission granted 19 cadré and temporary officials longer sick leaves terminating by retirement on pension; and pronounced 205 hors cadre employees medically unfit for further service.

## Medical Examinations of Pilots.

Of 108 candidates for private pilot licence "A" examined by the Central Medical Commission during 1943, 95 were found fit (92 on first examination and 3 on second examination). 11 of the 13 failures were examined once and 2 were examined twice.

All of the 10 candidates for public pilot licence "B" were found fit (9 on first examination and one on second examination).

Of 76 private pilots examined for renewal of licence, 72 were found fit (71 on first examination and one on second examination). The four failures were examined once.

All 73 public pilots examined for renewal of licence were found fit on first examination.

## Provincial and Governorate Medical Commissions.

A total of 36,143 medical certificates were issued by Provincial and Governorate Medical Commissions during the year or 4,485 certificates more than in 1942.

TABLE BO. 64.- ANNUAL RIPURE SHOWING CLASSIFICATION OF DISEASES CONTRACTED BY OFFICIALS AND EMPLOYERS FOR WHICH SICK LEAVES WIRE GRANTED BY THE CENTRAL AND PROVINCIAL MEDICAL COMMISSIONS AND BY THE DISTRICT M.OS. IN CAIRO AND APPROVED BY THE C.M.C. DUBING THE YEAR 1943.

DISEASES

				H. C.	L&L.	827.428	3,165	
			istoT	P. & T.	841.1	1,540	2,718	
		H	Dental Diseases	H. C.	6	LZ	38	,
			ı.dı ı d	P. & T.	<u>82</u>	06	163	
ı		10	aerurto arH	P, & T, H, C,	120	442	869	
	200		anoitsreqO	H. C.	132	1,234	309	
	inea	8	Other Surgioal	P. & T.	208	809	1,626	
	Q o	90	send Stones	H. C.	02	103	123	
۱	in		metsy System	P. & T.	ΙÞ	18	188	
۱	hth	-	Hydroceles	H. C.	9	8†	23	
1	Surgical and Ophthalmic Discases		1	T. & .T	6	16	52	
۱	pus	φ	Piles	P. & T. H. C.	87	189	141	
	al a			H. C.	62	19		
İ	irgie	20	Fistulae	P. & T.	88	28	011	
	Sa	41	Hernia	H. C.	91	<u> </u>	102	
			-:	P. & T.	53	22	18	
		က္	ailioibneqqA	H. O.	1	48	29	
		-		H. C.   P. & T.	31	34	99	
		63	sessesid 1sH	P. & T.	<u>₹</u> 7	38	89 89	
				H. C.	63	214	112	
		1	Eye Diseases	P. & T.	9/1	181	320	
١				H. O.	843	398.8	4,205	
			LatoT	P. & T.	2,893	₹∙333	922,7	
			Diseases	H. C.	61	<b>₹</b> ∠1	193	
		15	Other Medical	P. & T.	88	812	306	
		14	Hevers	H. C.	92	909	089	
			1	T & .4	210	198	178	
		13	Rheumatism	H. C. I.	96	LTF	213	
1				H. C.   P. & T.	158	<u> </u>	101	
i		12	silidqy2	P. & T.		83		
		-	T. B.	H. C.	79	99	01	
1		=	<u></u>	P. & T.	120	97	9#1	
1		0	and Cereb.	H, C,	126	169	272	
ı	ase	10	Mervous System	P. & T.	944	914	7611	
	Dise	6	General Debiity	Н. С.	I9	67	08	
۱	38.1		bna aimsanA	P. & T.	211	79	92.1	
1	Medical Diseases	00	Mental Diseases	H. C.	18	3	33	2
ı	2			P. & T.	<u> 79</u>	L	19	Cadre.
1		-	Nervousness	P. & T. H. G.	- <del>7</del>	<u>†6</u>	86	Hors
			Cystis	H, C,		521	350	田
		9	Kidney and	P. & T.	973	323	269	
İ		10	Liver	H. C.	22	LII	139	H.0.
			1	T & .q	142	216	328	
		3*	bns dosmotS	H. C.	43	271	314	
		- 13	Cir. System	H. C. T. A. T. T. A. T.	221	425	673	Temporary.
		က	Heart and	P. & T.	255	132	185	odu
		કા	Lungs	H. C.	139	828	499	Ten
		73	Bronchi and	P. & T.	388	909	<b>†</b> 66	1
		æ	esoM anyral bas	H. C.	36	79	06	H
			J. O. O.	P. & T.	124	182	308	
					Commission	Other Governmente and Pro- vincial Commissions	•	th.
					ing:	ਲੂ :		N.BP Permanent,
					Coor	er Governorate an vincial Commissions		TRE
						#te	TOTAL	P
					lica	Thor		
					Medica1	8		I P
						5 4194		.B.
					Central Cairo	her		4
					3	O		

H. C. 106'T 7.723 F39.6 LatoT P. & T. 49₽'I 884 I 321 to Service 811 H' C' ₹42 771 Other Diseases 96 P. & T. 98 10Causes of Rejection of Candidates applying for Entry H. C. 3 3 System Digestive P. & T. H. C. 9 12 LI System Nervous P. & T. 7 Þ Diseases H. C. 89 36 LOI System **Viotaliatory** P. & T. 3 99 89 ZLH. C. H 83 System Respiratory P. & T. 8 8 074·I H. C. **462** 202.2 System Urinary P. & T. 072 ₽g **178** ₹99.9 H' C' 1.240 ¥64.9  $noisi \boldsymbol{V}$ Defective P. & T. 1,034 253 182.I Total 36,143 089.77 60.823 1,733 H. C. Examinations \$\$\$ Other Cases 291.2 P. & T. 044 212 386 M. Auth. Nafars 13 8 12 Com. of Pension 103 109 egA to H. C. 38₹ 268 1.286 Determination P. & T. 3₽ 88 For 02 Invaliding H. C. 28 961.1 I.S.L. Fit P. & T. 36 6728 Unfit H. C. TLT. I 108. I 3.275 P. & T. Objects of Medical Examinations LF 38 28 Refused H. C. III 794 998 For Siok Leave Number of Cases P. & T. **841** ₽29 208 Granted H' C' 3,710 064 9 009.6 P. & T. 639.9 57873 12.402 noissed bas Candidates for Rejected in Missions noisseZ tal Rejected in **JanU** Fit 9 9 Janu I06 · I 7.723 Hors 129.6 For Admission to Service ₹9₹.3 Fit 8118₹ 819.01 noisses bas 9 112 Permanent and LLI Rejected in Temporary mi beteejeR noisseS tal 44 196 1.034 gun 338 539 229 41H #125e 976 291-9 Central Medical Commission Provincial Commissions Other Governorate TOTAL

No. 95.-Annual Report on the Work of the Central, Provincial and Governorate Medical Commissions during the Year 1943

TAELE

N.B.-P = Permanent. T. = Temporary. H.G. = Hors Cardre.

## Appendix III.—CENTRAL STORES

Again, the Central Stores continued to obtain and supply the units of the Ministry with up-to-date apparatus, equipment, surgical instruments and drugs. Arrangements were also made for provisioning all hospitals throughout the country with diets.

The following new units were supplied with equipment and appliances:-

- 1.—Some sections in the Boulac Health Group.
- 2.—Two ancylostoma branches within district hospitals.
- 3.—An ear, nose and throat section in general hospitals.
- 4.—Two dental clinics.
- 5.—Two skin and venereal diseases clinics.
- 6.—Conversion of two ancylostoma school clinics to the new system.
- 7.—New wards in Demerdash Pasha Hospital.
- 8.—Two mobile child welfare centres.
- 9.—Expansion of the vaccine and Serum Institute.
- 10.—An ancylostoma mobile clinic.
- 11.—A travelling ancylostoma hospital.
- 12.—A sanatorium at Mehalla el-Kubra.
- 13.—Two chest diseases dispensaries.
- 14.—Two in-patient departments in chest diseases dispensaries.
- 15.—A tuberculosis ward in Kharga Oasis hospital.
- 16.—A colony for convalescents in Marg.
- 17.—A hospital for medical and endemic diseases at Tewfikieh.
- 18.—Conversion of Zawamel and Eneiba Health Groups into district hospitals.
- 19.—An ophthalmic branch in district hospitals.
- 20.—A hospital for incurable diseases in Cairo.
- 21.—Schools for assistant midwives and health visitors.
- 22.—A mobile leprosy unit.
- 23.—16 general ophthalmic and ancylostoma hospitals following transfer from provincial councils to this Ministry.
- 24.—Five venereal diseases clinics ex-provincial councils.
- 25.—Seven ophthalmic branches ex-provincial councils.
- 26.—One out-patient clinic ex-provincial council.
- 27.—3 village shelters ex-provincial councils.
- 28.—19 Child welfare centres ex-provincial councils.
- 29.—7 Dayas schools ex-provincial councils.

The work of the Central Stores is briefly shown in the following table No. 96:-

Kind of	Work	:								1943
Receipt vouchers		• • •	•••	• • •	• • •	• • •	• • •	• • •		13,926
ssue Vouchers	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •		63,015
Claims	• • •	•••	•••	•••	• • •	• • •	• • •	• • •		1,282
Dorrespondence outward	• • •	• • •			• • •					128,355
Correspondence inward and forms	• • •	• • •	• • •	• • •	• • •		• • •			124,780
Postal parcels despatched				• • •		• • •				9,208
Postal parcels received										3,102
Railway parcels despatched										45,896
Railway parcels received						• • •				35,836
Workshop labour (articles repaired)							***	• • •		72,651
Workshop labour (articles newly made)							• • •	***		106,208
WOLKSHOP ISDOUL (STOLETCE HOWL) Made	• • •	***	• • •	* * *	• • •		• • •	• • •	•••	100,200

The following new units were opened for treatment during 1943:-

- 1 Incurable diseases hospital at Helwan, Cairo.
- 1 Omar Pasha Sultan hospital at Minia.
- 1 Medical Commission at Alexandria.
- 3 Dental clinics in Mit-Ghamr, Suez and Zagazig hospitals.
- 2 Sections for ear, nose and throat in Zagazig and Mehalla-el-Kubra hospitals.

2 Medical diseases sections in Shebin-el-Kom and Benha hospitals.

3 Gynaecological and obstetric sections in Qena, Kaliub and Ismailia hospitals.

1 Children section in King's hospital.

1 Ophthalmic branch in Aga district hospital.

1 Museum for hygiene.

1 Repair workshop for propaganda apparatus and vehicles.

1 Venereal diseases clinic at Luxor.

1 Princess Khadiga Abbas Halim hospital for bone tuberculosis at Helwan.

1 T.B. section in Fouad Sanatorium for advanced cases.

1 Colony for convalescents at Marg.

1 Fever Hospital at Embaba.

1 Public Health Office at Sharabia.

2 Ancylostoma branches in Kafr el Dawar and Dekernis hospitals.

1 Ancylostoma hospital No. 41 at Delengat.

- 1 Medical and endemic diseases hospital at Tewfikieh, Behera.
- 1 Ancylostoma clinic No. 17 at Belcas. 2 Mobile ancylostoma clinics Nos. 4 and 6.

1 Mobile child welfare squad at Kous.

- Malaria stations at Bellana, Edfu, Qena, Nag-Hamadi, Suhag, Assiut, Minia Dakhla Oasis, Benban, Dabaa, Allaki, Khour-Rahmah, Derr, Baliana and Wadi el Natroun.
- Schools for assistant midwives and visitors annexed to child welfare centres at Sharabia, Zeitoun, Old Cairo, Shubra, Boulac, Bab el Sharia, Tanta, Zagazig, Beni-Suef and Assiut.

2 District hospitals ex-health groups in Zawamel and Eneiba.

2 Annexation of Princess Shuicar Ibrahim out-patient clinic and municipal outpatient clinic at Damanhour to the Ministry.

Provinical council units taken over by the Ministry:-

3 Hospitals at Zefta, Kafr el Sheikh and Fowa.

1 Mahmoudiah out-patient clinic.

6 Ophthalmic branches in Fowa, Menouf, Ashmoun, Tala, Fashn and Belbeis hospitals.

2 Travelling ophthalmic hospitals Nos. 14 and 15.

- 4 Ophthalmic hospitals at Mehalla el Kubra, Santa, Minshat Sabri and Zifta.
  1 Conversion of Kafr el Zayat ophthalmic hospital into a district hospital.
- 4 Venereal diseases clinics at Mit Ghamr, Benha, Sennouris and Tanta.

5 Ancylostoma hospitals Nos. 36, 37, 38, 39 and 40.

1 Ancylostoma branch at Menouf hospital.

6 Child welfare centres at Toukh, Kaliub, Shebin el Kanater, Zagazig, Suhag, and Damanhour, also dayas schools attached to each.

14 Child welfare centres at Minia el Kamh, Abo Kebir, Belbeis, Santa, Biala, Shebin el Kom, Ashmoun, Tala, Minshat Sabri, Embaba, Wasta, Beba, Manfalout and Kafr el Zayat.

TABLE No. 97.—CONTRACTS AND ORDERS IN 1943

•		Kin	d of	Work.									1943
												-  -	
General adjudications	•••	• • •	• • •	• • •	• • •	• • •	•••	* * *	•••	• • •	• • •	•••	276
~ 7 60	• • • • •	• • •	•••	• • •	•••	• • •	• • •	•••	•••	• • •	•••	•••	190
Contracts		• • •	•••	• • •	•••	•••	•••	•••	• • •	•••	• • •	• • •	320
Local orders			• • •	• • •	•••	•••	• • •	•••	•••	•••	•••	•••	488
Foreign orders			•••	• • •	• • •	•••	•••	• • •	•••	•••	•••	•••	18
Forms 50 CG		• • •		***		• • •	•••	***	• • •	• • •	• • •	•••	2,939
Questions submitted to t	he cont	cract	boa	rd	•••	•••	• • •	•••	• • •	•••	•••	•••	631
dentined heard held					•••	• • •		* * *		• • •	• • •	***	120
Tenders submitted in g	eneral	adju	dica	tions	•••	•••	•••	•••	• • •		• • •	•••	607
Miscellaneous orders	•••	•••	•••	•••	• • •	•••		• • •	• • •	•••	•••	•••	78
Acmonments	•••	•••	•••	• • •	• • •	•••	•••	•••	•••	•••	• • •	•••	5
Tenders submitted in loca	al adjud	licat	ions	•••		•••	99.0	***	•••	•••	•••	009	832

## Appendix IV. DETAILS OF 1943-1944 BUDGET GRANTS AND EXPENDITURE

TABLE No. 98.—DETAILS OF BUDGET GRANTS AND EXPENDITURE

	Budget	Grants	. Actual 1	Expend.
Title I	1942	1943	1942	1943
	L.E.	L.E.	L.E.	L.E.
Salaries, Wages and Allowances	965,100	931,434	935,642	901,547
Title II				
General Expenses	1,287,270	1,633,600*	1,132,227	1,632,133
Title III				
New Works	<b>370,5</b> 30	477,100†	78,591	335,912
Total	2,622,900	3,042,134	2,146,460	2,869,592

<sup>\*</sup> By decree No. 14 of 1944, an additional credit was opened under Title II for the sum of L.E. 20,000 being an additional subsidy to Farouk I University, Alexandria, for the extension of its Faculty of Medicine.

<sup>†</sup> Two Additional credits were opened under Title III: one for the sum of L.E. 36,500 by Decree No. 96 of 1943 for the creation of a new Fever Hospital at Embaba; and another for the sum of L.E. 100,000 by Decree No. 72 of 1944 for the termination of the Malaria Campaign for which an additional credit was opened in 1943.

	1943		1,273		548	563	7,643	11,024
Total	-				అ	7		
	1942		1,311		466	£.	8,291	11,698
t <sub>s</sub>	1943		[1]		195	411	9	909
Units	1942		1 1		175	473	İ	648
Admin.	194 3		1 1		353	152		10
Central Admin.	1942		1		291	201		492
edicine	1943		235				2,240	2,661
Social Medicine Sections	1942		199				2,057	2,400
Medicine ons	1943		<b>2</b> 61			i	696	1,525
Perventive Medicine Sections	1942		369			-	1,541	2,293
fedicine ons	1943		508 263		1	1	2,861	3,632
Curative Medicine Sections	1942		537		1	1	3,188	3,923
iseases	1943		166		ı	1	688	1,121
Endemic Diseases Sections	1942		57		[	1	889	1,087
ections	1943		203		l		684	974
General Sections	1948		149		-	1	616	648
		Technical Posts:—	Permanent Temporary	Adm. and Clerical Posts:	Permarent	Temporary	Hors Cadre Staff	

## Appendix V.

## SUMMARY OF REPORT ON PUBLIC HEALTH IN ALEXANDRIA

TABLE No. 100 Showing the Number of Cases and Deaths of Infectious Diseases, 1943

Diseases	Noof Cases	Deaths
Typhus Exanthematus	1 881	384
Cerebro-spinal Meningitis	31	18
Typhoid and Paratyphoid	943	143
Scarlet Fever	28	
Diphtheria	531	140
Measles	582	120
Whooping Cough	96	5
Mumps	619	2
Malaria	1 469	26
Erysipelas	397	24
Tetanus	46	25
Pulmonary Tuberculosis	1 676	712
Chicken Pox	276	6
Influenza	4 218	9
Puerperal Sepsis	110	14
Dysentery	273	111
Acute Broncho-Pneumonia and Acute Lebar Pneumonia	2 355	1 764
Leprosy	12	2
Acute Polin Myelitis	1	
Undulant Fever	_	
Encephalitis Lethargica		
Acute Polioencephalitis,	1	1
Small Pox	123	16
Epidemic Ja ndive	$\frac{1}{2}$	1
Dengue Fever	2	
TOTAL	15 672	3 523

TABLE No. 101 SHOWING NUMBER OF INHABITANTS, BIRTHS, DEATHS, AND INFANTILE MORTALITY 1943.

			!																						-	-	
							A	No. of	Births					A	No. of L	Deaths			1		Infan	tile Mc	Infantile Mortality				
		Dietrici				Egyptians	ians	Foreigners	gners	Total		Total	Egyptians	ians	Foreigners	ners	Total.		Total	Egyptians	ans	Foreigners	ners	Tota1	Ĕ	Total of	Number of Inhabi-
						Male	Female	M.	Fi	Egypt. F	Foreign.		Male	Female	M.	된	Egypt. Fc	Foreign.		Male ]	Female	W.	F. 전	Egypt. Fo	Fore.		
। ਲੱ	Goumrok					2 582	2 510	63		5 092	က	5 095	1 467	1 165	H	<del>-</del>	2 532	67	2 534	619	543		<u> </u>	-   162   -		162 1	104 800
W	Manchieh	•		•	•	577	550	7	4	1 127	11	1 138	279	257	16	17	536	33	569	131	131		41_	262	4	266	28 500
H	Labbane	:	•	•	•	1 338	1 288	23	30	2 626	53	2 679	779	929	44	20	1 455	94	1 549	328	267	ಣ	9	595	6	604	54 300
A	Attarine	•	•	:	:	1 426	1 271	21	17	2 697	38	2 735	1 360	894	50	79	2 254	136 2	2 390	280	274	9	70	554	П	565	29 600
M	Minet el-Bassal (A)	(A) la	•	•	:	1 339	1 245	1	1	2 584		2 584	765	716			1 481	<u>-</u>	481	320	313			633 -		633	53 600
M	Minet-el-Bassal (B)	d (B)	• •	:	:	1 026	914	1	1	1 940		1 940	619	519		-	1 138	-	138	296	228			524 -	1	524	38 900
Ka	Karmouz (A)	•	:	•	:	2 173	2 114	-	1	4 287		4 287	1 282	1 216		-27	2 498	භ ය	201	574	525			- 960		960	85 400
Ka	Karmouz (B)	•	•	:	:	2 920	2 647	7	9	2 2 2 2	13	5 580	1 535	I 356	1	1 2	168 3	1 2	892	693	485			178 -		178	87 600
Mo	Moharram Bey	:	0 10 0	•		634	1 529	420	431	3 163	851 4	4 014	1 367	955	113	25  2	322	238 2	260	386	306	10	<u></u>	692	18	710	51 200
Hadra	lra	•	:	:		354	2 196	254	211	4 550	465 5	5 015	1 310	1 071	299	262 2	381	561 2	942	422	403	31	27	825	58	883	88 400
Ran	Ramleh (A)	:	:	•		631 1	1 595	20	70	3 226	10 3	3 236	888	851	54	26 1	739	80 1	819	338	336	Н	·	674	-	675	64 800
Ran	Ramleh (B)	•		:	:	720	200	H		1 420	1 1	421	417	380	67	62	797	4	801	179	142	1		321 -		321	19 800
		To	TOTAL	:		720 18	557	740	705 38	3 277 1	445 39	722 11	896	10 056	597	575 22	024	162 23	186	4 566	4 050	10	80	919	101	2002	736 900
					-	-		-	-	-	-	-	-!		-												

## Appendix VI—REPORT ON THE WORK OF CAIRO CITY HEALTH INSPECTORATE

Population.—The estimated mid-year population of Cairo in 1943 was 1,423,300

Births.—During the year, 76,343 births (excluding still births) were registered in Cairo with an increase of 10,888 births over the previous year or a birthrate of 53.6 per thousand of population.

#### Still Births:

Some 1627 still briths were recorded or a rate of 21.1 per thousand births as compared with 1530 in 1942.

## Deaths:

A total of 56,992 deaths were recorded in Cairo during the year. However 2193 of these were non residents of Cairo leaving 53,185 deaths for Cairo proper. This shows an increase of 1850 deaths over the previous year and gives an annual death rate of 37.4 per thousand of population as compared with 36.2 in1942; 28.5 in 1941; 26.9 in 1940; 25.9 in 1939 and a mean death-rate of 26.6 for the quinquennial period ending 1941. Birth and death statistics for Cairo are shown in table No. 102.

## Infantile Mortality:

17,994 children under one year of age died in Cairo during 1943, with an increase of 1786 over the previous year or a ratio of 235.7 per thousand births for the whole City as compared with 247.6 in 1942; 197 in 1941; 196 in 1940; 190 in 1939 and a mean rate of 195.8 for the quinquennial period ending 1941.

## Diseases Causing Infantile Mortality:

Diarrhoea and enteritis are the principal diseases affecting young children. They were responsible for 10,141 deaths or 56.4 % of the deaths recorded amongst children under one year of age. General diseases come next with 4,211 deaths or 23.4 %. Marasmus and general debility caused 2,395 deaths or 13.3 %. 722 deaths or 4 % were due to chest diseases and 525 deaths or 2 % were due to infectious diseases.

## Death Inquiries:

The total number of uncertified deaths which required investigation was 30,774 or 57.9 % of Cairo deaths. District medical officers examined 10,808 or 35.5 % of the uncertified deaths. District Mowallidas examined 18,999 or 61.7 % and the remainder was examined by days and village sanitary barbers.

## Infectious Diseases:

A total of 27,771 cases of infectious diseases were notified during the year (excluding 2,668 cases from outside), as compared with 20,956 cases in 1942; 16,612 in 1941; 14,632 in 1940; 11,517 in 1939 and 12,342 in 1938. Cairo deaths from infectious diseases totalled 8,394 or a ratio of 15.8 % of total deaths as compared with 13.9 % in 1942; 11.5 % in 1941; 10.3 % in 1940; 7.5 % in 1939 and 8.4 % in 1938. Table No. 103 gives the number of cases and deaths of the most prevalent infectious diseases distributed according to qisms.

## Influenza:

2240 cases of influenza with 20 deaths were notified during the year or a ratio of 1.6 and 0.014 per thousand of population as compared with 2002 cases and 941 deaths (a ratio of 1.4 and 0.003) in 1942; 1358 cases and 28 deaths (a ratio of .97 and .02) in 1941; 1851 cases and 30 death (a ratio of 1.3 and .02) in 1940; 1937 cases and 36 deaths (a ratio of .69 and .01) in 1939 and 1498 cases and 36 deaths (a ratio of 1.127 and .037 in 1938).

#### Tuberculosis:

A total of 3,345 cases with 1,777 deaths were notified during the year or a case-rate of 2.35 and a death-rate of 1.24 per thousand of population.

### Child Bearing Mortality.

The number of deaths attributed to confinement was 93 or 1.4 per thousand births as compared with 1.92 in 1942, 2.5 in 1941, 2.2 in 1940 and 2.6 in 1939 and 1938. Puerperal fever was responsible for 40 of these deaths or a ratio of 0.51 per thousand births as against 0.55 in 1942, 0.9 in 1941, 0.8 in 1940, 0.7 in 1939, 0.9 in 1938 and 1.6 in 1937. 53 mothers died within a fortnight of confinement (excluding puerperal fever cases) as against 90 in 1942, 104 in 1941 and 117 in 1940. The following is the distribution of these deaths according to causes: 16 Eclampsia, 5 metrorrhagia before confinement, 2 metrorrhagia after confinement, 1 metrorrhagia during confinement, 3 heart failure, 4 septicaemia, 1 rupture of uterus; 10 difficult labour 1 syncope, 4 placenta praevia and, 1 typhoid fever.

## Disinfection:

The total number of rooms disinfected during 1943 was 416,750 of which 347,173 rooms were disinfected by Fom el Khalig disinfection station and the remaining 69,572 by Abbassia disinfection station.

Table No. 102.—The Population and Vital Statistics of Cairo and its Quarters in 1943 with average Figures for Previous Years

Districts	Population	Number of Deaths	Death- rate per 1000 of Population	Number of Births	Birth-rate per 1000 of Population	Number of Infantile deaths (0-1) year	Infantile Mortality rate per 1000 Births
Ezbekia	58 <b>,200</b>	1,660	28.5	2,264	38.9	427	188.6
Abdine	90 <b>,9</b> 00	2,445	26.9	3,127	34.4	740	<b>2</b> 36·6
Sayeda I	71,700	3,412	47.6	4,875	68.0	1,190	244 · 1
Sayeda II	68,000	2,273	33.4	2,909	42.8	825	283.6
Khalifa	80,300	3,574	44.5	4,215	52.5	1,210	287 · 1
Darb-el-Ahmar	88,600	3,491	39.4	4,730	53.4	1,276	269.7
Mousky	28,300	858	30.3	1,240	43.8	263	212.1
Bab-el-Sharia	95,900	3,407	35.5	5,0 9	52.8	1,164	231 · 1
Gamalia	82,200	3,215	39.1	4,667	56.8	1,195	256·1
Abbassia	127,800	3,955	30.9	6,759	52.9	1,263	186.9
Shoubra	95,300	3,471	36.4	5,951	62.4	1,202	202.0
Rod-el-Farag	131,000	4,291	32.8	6,810	51.9	1,461	214.5
Boulac I	83,800	4,755	56.7	6,151	73 · 4	1,522	247.4
Boulac II	54,700	2,126	38.9	2,871	52.5	705	245.6
Old Cairo	72,800	3,264	44.8	4,049	55.6	1,104	272.7
Heliopolis	56,800	1,448	25.5	2,149	37.8	400	186.1
Zeitoun	44,200	1,855	42.0	2,771	$62\cdot 7$	717	258.8
Helwan	53,200	2,001	37.6	2,762	51.9	712	257.8
Sharabia	39,600	1,684	42.5	2,984	75.4	618	207.1
TOTAL FOR CAIRO	1,423,300	53,185	37.4	76,343	53.6	17,994	235.7
LUIZE FOR CAMO							
1942	1,419,800	51,335	36.2	65,455	46.1	16,208	247 · 6
1941–1937	6,828,400	181,557	26.6	296,940	43.5	58,148	195.8
1936–1932	6,364,700	167,964	26.4	270,420	42.5	53,369	197 · 4
1931-1927	5,365,400	156,855	29.2	242,277	45.2	53,228	219.7
1926–1922	4,050,600	141,879	35:0	209,991	51.6	49,076	233 · 7
					!		

20% Deaths Malaria 571 Cases 1,777 Tuberoulosis Destha 3,345 Cases 3,057 Destpa Totals 643 7488 756 780 709 1017 231 1,061 1,061 1,667 466 933 675 875 372 14,611 Cases 2000 127 15673 Deaths Measle 271 Ceses 578 23.52 24.44.44.45.35 25. Diphtheria Deaths 86 131 140 122 127 175 32 2134 Cases Deaths Scariet 33 Cases 88833148 21142 8881700 24188 8001147 208 384 Deaths Typhoid, fever 2,203 124 186 111 143 83 83 Cases 126 116 279 57 105 68 1868 114 39 103 230 Typhus Deatha 8652 376 329 456 456 454 128 655 320 320 628 404 2228 136 237 498 195 Cases Cerebro-Spinal fever 17 Destha 46 Cases Relapsing fever Destpa Canes 21200000400 83 Small-pox Deaths 1283 Cagos 58,200 68,000 68,000 80,300 88,600 95,900 95,900 95,800 72,500 72,500 44,200 55,200 39,600 1,423,300 Population TOTAL FOR CAIRO ... Distriots Darb-el-Ahmar Bab-el-Sharia Rod-el-Farag Sayeda II Old Cairo Heliopolis Boulac II Gamalia Sayeda I Boulac I Abbassia Sharabia Shoubra Mousky Ezbekia Khalifa Abdine Zeitoun Helwan

TABLE No. 103.—DISTRICT DISTRIBUTION OF THE PRINCIPAL INFECTIOUS DISEASES IN 1943

TABLE No. 104.—DISTRIBUTION OF UNCERTIFIED DEATHS AND DEATH INQUIRIES IN THE VARIOUS DISTRICTS IN 1943

			Un	certified Des	nths		of
Districts	All Deaths	Investigated by Pistrict M.Os.	Investigated by District Hakimas	Investigated by Village San tary Barbers	Investigated by Village Dâyas	District Totals	Percentage of Uncertified Deaths
Ezbekia Abdine Sayeda I Sayeda II Khalıfa Darb el-Ahınar Mousky Bab-el-Sharia Gamalia Abbassia Shonbra Rod el-Farag Boulac I Boulac II Old Cairo Heliopolis Zeitoun Helwan Sharabia	1,660 2,4 5 3,412 2,273 3,574 3,491 858 3,467 3,2.5 3,955 3,471 4,291 4,755 2,126 3,264 1,448 1,855 2,001 1,684	241 545 762 498 1,172 701 195 675 672 165 468 479 1,2.5 881 830 285 382 306 436	388 1,365 657 787 1,517 835 227 1,364 1,314 3.0 1,672 1,619 2,616 748 1,569 257 5.6 4.7 701	209 -3 565 18	17 	629 1,910 1,419 1,285 2,689 1,536 422 2,039 2,016 535 2,140 2,098 3,531 1,629 2,(25 582 891 1,330 1,168	37·9 78·1 41·6 56·5 75·2 44·0 49·2 59·8 62·7 13·5 61·7 48·9 80·6 76·6 80·4 40·2 48·0 66·5 69·4
Total for Cairo	53,185	10,908	18,909	795	72	35,774	57.9

TABLE No. 105.—ZYMOTIC DISEASES CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1943

Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case Mortality
Ezbekia Abdine Sayeda I Sayeda II Sayeda II Khalifa Darl-el-Ahmar Mousky Bab-el-Sharia Gamalia Abbussia Shoubra Rod-el-Farag Boulue I Boulue II Old Cairo Helic polis Zeiteun Helwan Sharabia	50,200 90,900 71,700 68,600 80,300 88,400 28,300 95,500 82,200 127,800 95,300 131,000 83,800 54,700 72,800 56,800 44,200 53,200 39,600	643 748 756 780 709 1,017 231 874 764 1,248 1,061 1,014 1,667 466 933 675 403 250 372	11.048 8.229 10.544 11.471 8.829 11.479 8.163 9.114 9.294 9.765 11.133 7.740 19.893 8.519 12.8 6 11.884 9.148 4.699 9.394	165 144 177 140 143 202 58 182 147 354 233 195 364 89 193 116 49 45 61	2·835 1·584 2·469 2·059 1·781 2·280 2·049 1·898 1·788 2·770 2·445 1·489 4·344 1·631 2·651 2·042 1·100 ·846 1·540	25·7 19·3 23·4 17·9 20·2 19·9 25·1 20·8 19·2 28·4 23·0 19·2 21·6 19·1 20·7 17·2 12·2 18·0 16·4
Total for Cairo	1,423,300	14,611	10.266	3,057	2.148	20.9

TABLE No. 106.—Typhoid Tever Case and Death Rates in Cairo Districts in 1943

Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case Mortality rates per cent
Ezbekia Abdine Sayeda I Sayeda II Khalifa Darb-el-Ahmar Mousky Bab-el-Sharia Gamalia Abbassia Shoubra Rod-el-Farag Boulac I Boulac II Old Cairo Heliopolis Zeitoun Helwan Sharabia	58,200 90,500 71,400 68,600 80,300 88,600 28,200 95,000 82,200 127,600 95,300 131,000 83,600 54,400 72,600 56,800 44,100 53,200 39,600	124 186 111 143 83 106 42 113 21 283 210 188 105 46 73 153 78 42 46	2·131 2·046 1·548 2·03 1·034 1·96 1·484 1·778 ·664 2·2 4 2·204 1·435 1·253 ·841 1·003 2·694 1·765 ·789 1.162	38 32 23 21 15 20 7 24 11 48 36 19 20 11 11 24 7 9 8	0.653 0.352 0.352 0.321 0.309 0.187 0.226 0.247 0.250 0.134 0.376 0.378 0.145 0.239 0.201 0.423 0.151 0.423 0.169 0.202	30·6 17·2 20·7 14·7 18·1 18·9 16·7 21·2 15·5 17·0 17·1 10·1 19·0 23·9 15·1 15·7 9·0 21·4 17·4
Total for Cairo		2,203	1.248	384	0.520	17.4

TABLE No. 107.—Typhus Case and Death Rates in Cairo Districts in 1943

· Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case Mortality rates per cent
					,	
Ezbekia	58,200	376	6.460	57	1.667	25.8
Abdine	90,500	339	3.69	73	0.503	<b>2</b> 2 · <b>2</b>
Saveda I	71,700	456	6.3 0	123	1.715	27.0
Sayeda II	<b>6</b> 8,000	438	6.411	66	0.971	15.1
Khalifa	80,300	454	5.654	83	1.006	19.4
Darb-el-Ahmar	88,600	638	7.038	114	1.287	18· <b>2</b>
Mousky	28,300	128	4.5.13	39	1.378	30.5
Bab-el-Sharia	95,900	498	<b>5.</b> 193	103	1.074	20.8
Gamalia	82,200	495	6.026	97	1.180	19.6
Abbassia	127,800	655	5.125	230	1.801	35 · 1
Shoubra	\$5,300	577	6.055	126	1.322	21.8
Rod-el-Farag	13,000	546	4. 63	116	0.8.5	21 · 2
Boulac I	83,:00	1,119	13.353	279	3.329	24.9
Boulac II	54,700	320	5.850	57	1.042	17.8
Old Cairo	72,00	628	8.626	105	1.442	16.7
Heliopolis	56,800	404	7.113	68	1.197	16.8
Zeitoun	44,200	228	5.153	31	0.701	13.6
Helwan	53,200	136	2.876	24	0.451	17.6
Sharabia	39,600	237	5.985	32	0,803	13,5
DIAL DIG						
		0.080	6.079	1 000	¥ , 9 40	04.0
TOTAL FOR CAIRO	1,423,300	8,652	0.013	1,868	1.312	21.6

.TABLE No. 108.—DIPHTHERIA CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1943

Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case Mortality rates per cent
Ezbekia	58,200	86	T • 477 O	9.2	0.445	00.0
A 1 - 7'	90,500	131	1.478	26	0.447	30.2
CIT	71,700	140	1.441	31	0.341	23.7
A 1 TT	The state of the s		1.953	28	0.391	20.0
17 1, 11 fa	68,000 80,300	122	1.794	42	0.618	34.4
Darb-el-Ahmar	88,600	127	1.582	33	0.411	26.0
Manaless	,	175	1.975	48	0.542	27.4
D 1 1 Cl	28,300	32	1.131	10	0.353	31.3
0	95,500	185	1.721	47	0.490	28.5
A 7 7 *	82,200	106	1.290	30	0.365	28.3
Chambra	127,800	192	1.502	67	0.524	34.9
	95,300	189	1.983	<b>5</b> 3	0.609	30.7
Rod-el-Farag	131,000	152	1:,60	38	0.290	25.0
Boulao I	83,800	124	1.480	28	0.334	22.6
Boulac II	54,700	56	1.024	18	0.329	32 · 1
Old Cairo	72,800	105	1.442	17	0.234	16.2
Heliopolis	56,800	78	1:373	<b>2</b> 3	0.405	29.5
Zeitoun	44,200	61	1:380	9	0.204	14.8
Helwan	53,200	37	•695	11	0.207	29.7
Sharabia	39,600	96	1.414	14	0.354	25.0
Total for Cairo	1,423,300	2,134	1.499	578	0.406	27·1

TABLE No. 109.—SMALL POX CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1943

Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case Mortality rates per cent
Ezbekia Abdine Sayeda I Sayeda II Khalifa Durb-el-Ahmar Musky Bab-el-Sharia Gamalia Abbassia Shoubra Rod-el-Farag Boulac I Boulac II Old Cairo Heliopolis Zeitoun Helwan	90,500 71,700 68,000 80,300 88,600 28,300 95,500 82,200 127,800 95,300 131,000 83,800 54,700 72,800 56,800 41,200	54 83 39 57 31 80 24 87 76 87 68 103 392 42 55 27 21	•928 •913 •544 •838 •386 •903 •848 •907 •925 •681 •714 •786 3•604 •768 •755 •475 •475 •489	2 5 -2 1 5 1 6 2 3 8 2 34 3 7 -	0·034 0·055 	3·7 6·0 — 3·5 3·2 6·3 4·2 6·9 2·6 3·4 11·8 19·4 9·9 7·1 12·7
Sharabia	39,600	1,283	•530	83	·0.51	9.5

TABLE No. 110.—Measles Case and Death rates in Cairo Districts in 1943

Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	Case Mortality Rates Per Cent
Ezbekia Abdine Sayeda I Sayeda II	58,200 90,500 71,700 68,000	1 9 9	*017 *099 *126 *206	. 3 3 7	0.017 0.033 0.042 0.103	100·0 33·3 33·3 50·0
Khalifa Darb-el-Ahmar Mousky Bab-el-Sharia	80,300 88,600 28,300 95,100	10 27 5 6	•125 •305 •177 •0 3	6 15 1	0·075 0·169 0·035	60·0 55·6 20·0
Gamalia Abbassia Shoubra Rod-el-Farag Boulac I	82,200 127,500 95,300 131,600 83,500	15 22 15 23 15	·182 ·172 ·157 ·176 ·179	7 1 5 20 2	0·085 0·003 0·052 0·153 0·024	46·7 4·5 33·3 87·0 13·3
Boulac I  Boulac II Old Cairo Heliopolis Zeitoun	54,700 72,800 56,800 44,200	1 63 5 13	.0 8 .865 .098 .204	50 - 2	$     \begin{array}{c c}                                    $	79.4
Helwan Sharabia Total for Cairo	53,200 39,600 1,423,300	271	•150 253 • <b>190</b>	127	0.019	12·5 30·0 46·9

TABLE No. 111.—CEREBRO SPINAL FEVER CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1943

Districts	<b>Population</b>	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death rates per 1000 of population	Case Mortality Rates per cent
Ezbekia Abdine Sayeda I Sayeda II Sayeda II Khalifa Darb-el-Ahmar Mousky Bab-el-Sharia Gamalia Abbassia Shoubra Rod-el-Farag Boulac I Boulac II Old Cairo Heliopolis Zeitoun Helwan Sharabia	53,200 90,900 71,700 68,000 80,300 88,600 28,300 95,900 82,200 127,800 95,300 131,000 83,800 54,700 72,800 56,800 44,200 53,200 39,600	2 6 - 2 4 1 - 3 1 7 2 - 2 1 8 2 2 1 2	0·034 0·066 	1 2 2 - 5 - 5 - 1 - 3 1 - 2	0·017 	50·0
TOTAL FOR CAIRO	1,423,300	46	0.032	17	0.012	37.0

TABLE No. 112.—Scarlet fever Case and Death Rates in Cairo Districts in 1943

Districts	Population	Number of Cases recorded	Case rates per 1000 of Population	Number of Deaths	Death-rates per 1000 of Population	CaseMortality Rates per cent
Ezbekia	58,200 90,900 71,700 68,000 80,200 88,600 28,500 95,900 62,200 127,800 95,300 131,000 83,800 54,700 72,800 56,800 44,200 53,200 39,600		0·044 0·014 0·059 — — 0·021 — 0·016 — 0·015 — 0·014 0·106			
Total FOR CAIRO	1,423,300	22	1.015	_	_	•

TABLE No. 113.—MALARIA CASE AND DEATH RATES IN CAIRO DISTRICTS IN 1943

Districts	Population	Number of Cases recorded	Case rates per 1000 of population	Number of malignant cases	Death-rates pepr 1000 of population	Case mortality rates per cent
Ezbekia	58,200	18	.309	10	.172	55.6
Abdine	90,900	30	.330	8	.088	26.7
Sayeda I	71,700	19	.265	6	.084	31.6
Sayeda II	68,000	`15	.221	8	.118	53.3
Khalifa	80,300	9	.112	1	.012	11.1
Darb el Ahmar	88,600	13	.147		_	_
Mousky	28,300	6	.212	4	.141	66.7
Bab el Sharia	95,900	14	.146	4	.042	28.6
Gamalia	82,200	24	.292	5	.061	20.8
Abbassia	127,800	91	.712	19	.149	20.9
Shoubra	95,300	21	.220	7	.073	33.3
Rod el Farag	131,000	22	.168	6	.049	27.3
Boulac I	83,800	26	.310	14	.167	53.8
Boulac II	54,700	8	.146	2	.037	25.0
Old Cairo	72,800	35	.481	1	.014	2.9
Heliopolis	56,800	182	3.204	22	.387	12.1
Zeitoun	44,200	14	.317			_
Helouan	53,200	12	.226	_		_
Sharabia	39,600	12	.303	3	.076	25.0
Total for Cairo	1,423,300	571	.401	120	084	• 021

#### FEVER HOSPITAL, ABBASSIA

The number of admissions to the Abbassia Fever Hospital during the last three years, including persons accompanying patients was:

**1941...** ... 13,474

**1942...** ... 15,989.

1943... ... 23,251

The number of admissions during the year 1943 was 18,029 (of these 2,479 died). The remainder i.e., 5,222 were persons accompanying patients.

Table No. 113 gives details of infectious diseases isolated during 1943. The following tables deal with some of these diseases separately.

TABLE No. 114 GOVERNEMENT FEVER HOSPITAL, ABBASSIA, 1943

Difference   Dif									1943	8					
Main   Main	Diseases	Cares admitted 1942		Cases dmitte	, ,	Case Ac within 3	lmit.	Cases Acwithin 4	days	Caces A after 7	dmit.	G. sent by by Offices	0. S. by hospitals	C. S. by private practi-	C. Adm., at their own request?
Secondary   Seco		Adm.	D.	Adm.	D.	Adın.	D.	Adm.	D.	Adm.	D.		•	tioners	
Secondary   Seco															
1,514   75   118   8   857   35   559   32     1,117		2,209	517	**	್ರಾಲ್ಡ್	069	102	3,250	575	4,528	845	4,745	12,52	1,550	918
1,000   1,00	<b>X</b> 0		-	1,514	75	118	00	857	35	539	32	762	559	168	20
vid     vid <th></th> <td>9 060</td> <td>18</td> <td>119</td> <td>1 -</td> <td>105</td> <td>93</td> <td>1 877</td> <td>1 67</td> <td>I K</td> <td>7.7</td> <td>1 0 C</td> <td>608</td> <td>304</td> <td>190</td>		9 060	18	119	1 -	105	93	1 877	1 67	I K	7.7	1 0 C	608	304	190
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	pioid	618	43	341	10	55	7	124	7 7	159	<u>.</u> 10	140	109	65	27
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		892	313		404	412	107	530	189	229	108	331	350	293	197
Fer		553	127	`	83	99	18	115	35	81	30	73	89	69	52
F		1,943	i	~	9	1,328	63	1,052	-	476	က	1,316	1,204	115	221
X   X   X   X   X   X   X   X   X   X	•	න දි	"	ကျွ		c7 6	1	7 0	1			6	G	21 0	1
F		180	18	3000	∞	20 CC	<b>→</b>	X 50	0		1	42	6.00	Q 9	ם נס
Cough       3       17       1       2       2       2       4       2       2       1       4       6       3 </th <th></th> <td>140</td> <td>83</td> <td>ू स</td> <td>13</td> <td>11</td> <td>4</td> <td>14</td> <td>9</td> <td>- 1</td> <td>က</td> <td>4</td> <td>14</td> <td>11</td> <td>က</td>		140	83	ू स	13	11	4	14	9	- 1	က	4	14	11	က
F	ng Cough	20	က	17			P		-	16		10	ಬ	ಬಾ	67
F		55	26	77	32	30	17	20	6	21	9	00	45	12	ಣ •
		27	က	<del>1</del> 0 <del>7</del>	, CT	<u>0</u> 3 1	1	1		50	<b>41</b> C	<b>1</b>	C) 1 N ,	27 7	4, 0
TOTAL 10,943 1,391 18,029 2,479 3,549 309 7,116 961 7,364 1,209		25	C 1	325	n (	00 5	7		1	16	77 0	7 6	01	4 (	0 6
TOTAL 10,943 1,391 18,029 2,479 3,549 309 7,116 961 7,364 1,269		238 238	27		207	150	7 6	110	10	46	Σ :	200	78.00	40	100
OTAL 10,943 1,391 18,029 2,479 3,549 309 7,116 961 7,364 1,209	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,627	69		147	5003	7.7	221		009	Ď	485	082	G 7.7	797
	OTAL	10,943	1,391	18,029	2,479	3,549	309	7,116	196	7,364	1,209	8,312	4,871	2,288	1,964

TABLE No. 115-Age and Sex Distribution of Cerebro Spinal Fever Cases and Deaths

Annual Control of the					Male	3		Fema	le		Tota	al		ple of S.F.		b from
	Age			No. of cases	No. of deaths	Rate per cent	No. of	No. of deaths	Rate per cent	No. of cases	No. of deaths	Rate per cent	Positive	Negative	Positive	Negative
Less than o	one year	•••	• • •	4	2	50	1	1	100	5	3	60	1	4		5
1—2 years	s	• • •	• • •	_	_	_	_					_	_		_	
2—5 ,,	•••	• • •	• • •	1	_	0	1		0	2		0	1	1	_	2
5—10 ,,	•••	• • •	• • •	2		0	4	_	0	6		0	4	2		6
10—15 ,,	•••	• • •	•••	2		0	1		0	3		0	3			3
15—25, ,	•••	•••	• • •	2		0	2	1	50	4	1	25	3	1		4
25—35 ,,		• • •	• • •	3	1	33	3	3	100	6	4	66	3	3	_	6
35—45 ,,	•••	****	•••	2	2	100	1	1	100	3	3	100	3	-	_	3
45—55 ,,	•••	• • •	• • •	1	1	100	_		0	1	1	100		1	-	
55-65 ,,	•••	•••	• • •	2	1	50		_	0	2	1	50	1	1	_	2
More than	65 years	•••	•••			_0			0		0	0				
	TOTAL	• • •	•••	19	7	36,6	13	6	46,7	32	13	40,6	19	13	_	32

TABLE No. 116.—AGE AND SEX DISTRIBUTION OF TYPHUS CASES AND DEATHS

			MALE			FEMALE			TOTAL	
Agm		No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate
.7				%			%			%
Less than year		5	3	60	3	2	66	8	5	62.5
1- 2 years.	•••	36	3	8.3	59	5	8.3	95	8	8.3
2-5 ,,	•••	81	6	7.3	124	6	5	205	12	- 6
5–10 ,,	•••	201	6	3	203	8	4	404	14	3.6
10-15	• • •	482	12	2.6	315	20	6.3	797	32	4
15-25	•••	2,030	240	11.5	910	68	7.5	2,990	<b>30</b> 8	10 3
25-35 ,,	•••	1,454	370	25.4	925	127	13.7	2,379	497	20.9
35-45	• • •	663	223	35.1	300	94	31.3	963	317	33
45-55 ,,	• • •	265	132	50	173	69	40	443	201	48
<b>5</b> 5–65		72	62	80	47	24	53	119	86	73
More than years	65	34	24	80	31	18	60	65	42	70
TOTAL	•••	5,373	1.081	20.1	3.005	441	14 3	8,468	1,522	17.8

TABLE No. 117—Age and Sex Distribution of Diphtheria Cases and Deaths

	M	IALE PI	8.	Fe	MALE P	TS.		TOTAL		Sw	AB		3 inj. b l month	
AGE	1	No. of Deaths	Mor- tality Rate		No. of Deaths	Mor- tality Rate	No. of Cases	No. of Deaths	Mor- tality Rate	Pos.	Neg.	No. of Cases	No. of Deaths	Mor- tality Rate
			%			%			%					%
Less than 1 years	26	15	57.9	18	8	28.6	44	23	<b>52</b> ·3	28	16	_	_	
1-2 year	62	35	56.3	44	32	$72 \cdot 7$	106	67	63.2	66	40	36	3	8.3
2-5 ,,	392	128	$32 \cdot 6$	325	116	$35 \cdot 7$	717	244	34	435	282	162	21	12.9
5–10 ,,	108	32	$29 \cdot 9$	102	33	$32 \cdot 3$	210	65	30.9	118	92	54	3	5.6
10–15 ,,	36	2	5.5	25	2	8	61	4	6.9	45	16	_		
15–25 ,,	12	1	8.3	8	_		20	1	5	13	7	_		
25–35 ,,		_		6		—	6		_	5	1			
35–45 ,,	4	_				_	4		_	4	-	_		
45–55 ,,	_		_	2		_	2	<u> </u>	_	2	-	_		
55-65 ,,	1	_			-	-	1	-		1	-	_		
Morethan 65,,	_			_	-	—,	_	-	-	_	_	-		
TOTAL	641	213	33	530	191	36	1,171	404	34.2	717	454	252	27	10.7

No. of Carriers ..., O.

Table No. 118—Age and Sex Distribution of Pneumonia Cases and Deaths

		Male			Female			Total		T 1	
$\mathbf{A}\mathbf{g}\mathbf{e}$	No. of Cases	No. of Deaths	Rate	No. of Cases	No. of	Rate	Ns. of Cases	No. of Deaths	Rate per cent	Lobar PN.	Broncho PN.
			per cent		Deaths	per cent	Cases	———	per cent	·	
Less than 1 year	6	3	50	6	3	50	12	6	50	6	6
1- 2 years	12	5	41.6	9	4	44.4	21	9	43	9	12
2-5 ,,	16	5	31.2	3	1	33	19	6	31.5	4	15
5-10 ,,	15	3	20	6	1	16.6	. 21	4	19	6	15
10-15 ,,	18	3		7	1	14.3	25	4	16	7	18
15–25 ,,	23	5	21.7	12	2	16.6	35	7	20	20	
25–35 ,,	33	8	24.2	18	3	16.6	51	11	21.5	23	28
35–45 ,,	24	8	33	9	5	55.5	33	13	39.3	18	15
45-55 ,,	21	6		6	5	83.3	27	11	40.7	15	12
55-65 ,,	9	5	55.5				9	5	55.5	4	5
More than 65,	9	7	77.7	-	-	_	9	7	77.7	3	6
TOTAL	186	58	30.1	76	25	32.9	262	83	31.7	115	147

TABLE NO. 119—AGE AND SEX DISTRIBUTION OF TYPHOLD CASES AND DEATHS

		MALE		ì	FEMALI		~	TOTAL	•		of ole W.		2 inj. a month	
AGZ		No. of Deaths	Mor- tality Rate	No. of Cases	No. of Deaths	Mor- tality Rate	No. of Cases	No. of Deaths	Mor- tality Rate	Pos.	Neg.		No, of Deaths	Mor- tality Rate
			%			%			%					%
Less than 1 year	2			1	_		3	_		_	3	721		694 jagus
1- 2 years	18	ļ	5.5	11	3	27.2	29	4	13.8	4	25	-	_	<del></del>
2-5 ,,	<b>9</b> 6	14	14.5	<b>4</b> 3	5	11.6	139	19	13.7	98	41	13	1	7.7
5–10 ,,	76	6	7.8	70	6	9.5	146	12	8.2	110	<b>3</b> 6	41	2	4.9
10–15 ,,	176	7	3.4	50	4	8	226	<b>1</b> 1	4.7	147	79	57	19	33.3
<b>15–2</b> 5 ,,	261	30	11.4	93	16	17 · 2	354	16	12.9	250	104	32	<b>1</b> 1	34.4
<b>25–3</b> 5 ,,	131	27	20.6	37	7	18:9	168	34	20:2	116	52	37	12	32:4
35-45 ,,	18	11	61.1	12	8	66.6	30	19	63:3	18	12	6	2	33:3
<b>45–5</b> 5 ,,	5	2	40	3			8	2	25	6	2	8		
55–65 ,,	2	1	50	3			5	1	20	2	3	-	_	
More than 65,,	3	2	66.6	1	_	-	4	2	50	3	1	_		
		-							. 4					
TOTAL	788	101	12.7	324	49	15·1	1 · 112	150	13.4	754	358	188	47	25

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A.—1. No.	of cases admitted within 3 days cured 82 died 23	105
2. No.	of cases admitted within 3-7 days cured 396 died 52	448
3. No.	of cases admitted after 7 days cured 404 died 75	5 <b>ğ</b> 9
B.—1. No.	of cases sent by health offices	287
2. ,,	,, ,, hospitals	392
3. ',,	" private Practitioners	304
4. ,,	,, who came by themselves	129

TABLE No. 120—AGE AND SEX DISTRIBUTION OF SMALL-POX CASES AND DEATHS

		Male			Female			Total			t Vaccina n Infanc	
Age	No, of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate
Less than 1 year 1-2 years 2-5 ,, 5-15 ,, 15-25 ,, 25-35 ,, 35-45 ,, 45-55 ,, 55-65 ,, More than 65 years	22 6 13 63 611 340 143 16 4	6 1 2 2 7 15 9 3 3	27.2 16.6 15.3 3.1 1.1 4.4 6.3 18.3 75	17 1 3 26 85 93 46 21 1	$   \begin{array}{c}     10 \\     1 \\     3 \\     \hline     2 \\     \hline     6 \\     2 \\     1 \\     \hline     1 $	5.8 100 100 	39 7 16 89 696 433 189 37 5	16 2 5 2 9 15 15 5 4	41 28.5 31.2 2.2 1.2 3.4 7.8 13.5 80 66.6	39 2 5 8 16 16 9 11 2	16 2 5 2 2 3 2 3	41 100 100 25 12.5 18.7 22.2 27.2 100
Тотац,.	1219	49	4	295	26	8.8	1,514	75	4.8	108	37	34,2

	Vacc	inated one yea	ır ago	Vaccinated 1-3 years ago			
Age	No. of cases	No. of death:	Mortality Rate	No. of cases	No. of deaths	Mortality Rate	
Less than one year			%	_		%	
1- 2 years	G			1 5 <b>5</b> 0	_	Ma.	
15-25 ,,	292	1 2	.3 1.2	398 <b>24</b> 8	6 10	1.5	
35–45 ,,	78	$-\frac{2}{2}$	2.5 —	102 19	$\begin{array}{c} 11 \\ 2 \end{array}$	10.8 10.5	
55-65 ,,				3	2 2	66.6	
Total	. 587	5	.8	819	33	4	

## PLAGUE

Age	•••	•••	•••	From 35-45 years
No. of Cases	•••	•••	•••	1
Sex	•••	•••	•••	Male
No. of cultures	•••	•••	•••	1 pos.
No. of Swabs	• • •	•••	•••	1 pos.

Sent by a Health office on the 4th day.

TABLE No. 121.—AGE AND SEX DISTRIBUTION OF PARATYPHOID CASES AND DEATHS

	MALE			FEMALE			TOTAL			Samples of Widal		Took 2 inj. before one month		
AGE	No. of Cases	No. of Deaths	Mor- tality Rate	No. of Cases	No. of Deaths	Mor- tality Rate	No. of Cases	No. of Deaths	Mor- tality Rate	Pos.	Neg.	No. of Cases	No. of Deaths	Mor- tality Rate
			%			%			%					%
Less than 1 year						—						<u> </u>	_	-
1- 2years				_	_	****				-		_	_	_
2-5 ,,	7			5			12			12	,			
5–10 ,,	12			8	_		20			20	_			
10–15 ,,	38	1	5.5	16	_	· —	34	1	2.9	34		2	-	
15–25 ,,	93	3	3.2	29			122	3	2.4	119	3	26		
25–35 ,,	73	2	2.7	18	1	5.5	91	3	3.2	89	2	17	_	
35-45 ,,	24	_		13	_	_	37			37		12	_	
45-55,	12	1	8.3	5	1	20	17	2	11.7	17	-	5	1	20
55-65 ,,	5	1	20	2.	_		7	1	14.3	7		_	_	
More than 65,,	1	_		_	_		_	-		1	-	_	_	_
													-	
TOTAL	245	8	2.6	96	2	2.1	340	10	2.8	336	5	62	1	1.6

A.—1.	No.	of cases	admitted	within	3 days	58
2.	,,	,,	<b>3</b> 7	,,	4-7 days	124
3.	,,	,,	,,	after	7 days	159
B.—1.	No.	of cases	sent by	health o	offices	140
2.	,,	"	,,	$\mathbf{hospital}$	S	109
3.	,,	,,	,,	Private	Practitioners	65
4.	,,	,,	who ca	me by	themselves	27

TABLE No. 122—Age and Sex Distribution of Dysentery Cases and Deaths

		Amæbic												
Age			Male		Female				Total					
		No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate				
Less than	1			%			%			%				
year	•••				<u> </u>			_	_	<u> </u>				
1-2 years 2-5,	•••	_	_	_	_	_			_	_				
5–10 ,,	•••	1	—		—			1		_				
10-15 ,, 15-20 ,,	• • •	13	<del></del>	_	_			$\begin{bmatrix} 1\\13 \end{bmatrix}$	<del></del>	_				
25-35 ,,	• • •		_ 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		_	_	8	1	12.5				
35–45 ,,	•••	$egin{array}{c} 8 \ 2 \ 2 \ \end{array}$	_		_	_		2	_					
45-55 ,,	• • •		1	50	1		_	3	1	33.3				
55-65 ,, More than	65	1	_	_				1	_	_				
years	•••	1	—		_		_	1		_				
							-							
TOTAL	• • •	29	2	6,7	1	_		30	2	26,6				

		Bacillary											
f Age			Male			Female		Total					
		o. of	No, of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate			
	-			%			%			0/0			
Less than 1													
	-				_	<del></del>		_					
					_		—		—				
5–10 ,,			<del></del>	<u> </u>			_	_	<u> </u>				
						_				_			
	•••	_		_	—			_					
		_	<u> </u>					—					
		_	_		_	—		_					
**		_	_	] —		<u> </u>	<u> </u>		—				
	-		_	_	2	1	50	2	1	50			
,	65												
years		_	_	_	_	_	_	_		-			
TOTAL .	-		-	_	2	1	50	2		50			

TABLE No. 123-Age and Sex Distribution of Erysipelas Cases and Deaths

Agr		Males			FEMALES		TOTAL			
	No. of	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	No. of Cases	No. of Deaths	Mortality Rate	
Less than 1 year	10		<u>%</u>	1Ô 1	1	10	20 4	1	<u>%</u>	
1- 2 years 2- 5 ,, 5-10 ,,	5 <b>5</b>	1	20	$7 \\ 2$			$1\frac{1}{2}$	1	8.3	
10–15 ,, 15–25 ,,	15 48	1 —	6.7	7 12	2	2.8	22 <b>6</b> 0	3	3.6	
25–35 ,, 35–45 ,,	41 30	$\frac{2}{3}$	4.8	15 26	1 3	6.7 11.5	56 56	3 6	5·3 10·6	
45–55 ,, 55–65 ,,	18 11 2	1	9	9 5	3 1 1	$\begin{vmatrix} 33.3 \\ 20 \\ 25 \end{vmatrix}$	27 16	$\frac{3}{2}$	11.1	
More than 65 years			,	4	1 	20	6	I	17	
TOTAL	188	8	4.3	98	12	12.2	286	20	7,1	

## 4.—Passengers:

During 1943, there were 13,740 passengers who arrived from infected countries as compared with 11,893 in 1942.

Of this total, 668 passengers arrived via Suez, 6775 via Kantara, 1299 by car via Ismailia, and 4992 passengers arrived by air of whom four landed at Luxor.

Besides, 10846 passengers arriving from the Sudan through Shellal were observed for Small-Pox, Meningitis and Yellow Fever.

All the Passengers, with the exception of 54 who could not be traced, were observed during the regulation period giving a ratio of 99.5 % observed.

## Pilgrims:

The total number of returning pilgrims during the year 1362 H. (1943) was 5456 as compared with 945 in 1942.

All pilgrims were observed for the regulation period and were found in good health with the exception of 7 pilgrims who developed suspected fever during observation. The final diagnosis of these cases was as follows:

- 1 Intestinal inflammation.
- 1 Paratyphoid.
- 1 High blood pressure and haemorrhage.
- 1 Small Pox.
- 3 Influenza.

7

The result of bacteriological examination of these cases was negative.

Of the 5446 pilgrims proceeding to the Hedjaz, 13 did not return. 11 remained in the Hedjaz and 2 died. Besides 40 pilgrims non residents of Cairo and 53 foreign pilgrims were also observed and found in good health.

Officials and employees of the Lazaret numbering 229 were observed and found in good health.

TABLE No.124.—RESULT OF OBSERVATION OF PASSENGERS ARRIVING IN CAIRO FROM INFECTED COUNTRIES DURING THE YEAR 1943

	Percentage Found	%	98,3	99,4	99,3	66	99,1	2,66	99,5	8,66	6,66	1,66	6,66	100	99,5
	banot toM	1	7	, LG	<u></u>	13	6	63	10	П	П	က	H		70
Total	Боило		975	957	1,117	1792	1,250	959	1,019	952	1,183	1,283	1,080	1,119	13,586
	[atoT		1,259	962	1,124	1,805	1,259	196	1,024	953	1,184	1,286	1,081	1,119	913,740
ailia	Percentage Found	%	100	100	100	100	100	100	100	100	99,3	100	100	100	99,91
Via Ismailia	hanoi toN		1	1			1	1		1	H			1	-
Car	Found		69	88	1111	142	89	09	31	53	160	235	114	146	1298
By	[atoT]		69	88	111	142	89	09	31	53	161	235	114	146	1299
	Percentage Found	%	100	100	100	I00.	100	100	99,5	97,9	100	100.	100	100	99,9 1299
Air	banot toN		1				1	1	-	ř				1	65
By. A	Found		274	285	324	.319	301	304	405	481	547	628	552	571	4990
	LatoŢ		273	285	324	319	301	304	406	482	547	628	552.	571	4,992
	Percentage	%	98,8	99	98,9	98,9	99.	99,5	100	100	100	100	100	100	99,5
ara.	banot toN		1-	5	7	13	7	62		1	1	1	1	1	4
Via Kantara	Found		627	576	650	1265	743	524	447	328	450	367	361	390	6,734
	[stoT		634	581	657	1278	750	526	447	328	450	367	367	390	6,775
	Percentings found	%		100	100	100	98.9	100	91	100	100	94,6	6,76	100	98,5
nez	banoi toN		1	1		1	73		4	1		ಣ	prod		10
Via Suez	Pound		1	00	32	99	117	17	136	06	26	53	47	12	658
	Total			00	32	99	611	17	140	06	26	56	48	12	899
	Percentage found	%	100	1	1	1			1	1	-	1	-		100
Via Port-Said	have tou		1	1		7	- Alexander	1	1	1	1	1	1	1	
Via Pc	Found		9		1	-	1			1	1	1	1	1	9
	[ado]Ţ		9	- A 10.	1		-	1		ĺ			1	1	9
- B	Percentage found		- 1	1	1	.1	1	1	-	1.	1	. 1	1		.
Via: Alexandria:	banol toN		1	Î		-	73444	1	1		-				1
is Ale	Found		-		1			-	-	1	-		1		
	[atoT		4	:	:		:	:	:	:		•	1	-	
	Month		January	February .	March	April	Ма.у	June	July	August	September	October	November	December	Total

Table No 125—Statistics of Piegrims returning to Cairo during 1943 (1362 H.)

	Steps taken			1			1	1	1					-	Admitted to F.H. cured	. •			**************************************		Admitted to F.H., cured	Death occurred after or-	dinary observation.		
		dmuN. Vartnoo																							
hose														1											
Number of those died at home	9	Direct cause							1	1	1												1		
Num		Number									1		1	1									1	1	
		Number of the died at								1	1		1	1	1		F1			1			1	रू	
n the left rned		to saosao To esse or decresse						ļ					1		1							١,		1	
Difference between the number of those left and those returned		Decresse				1	1	1	1	-	1	ಣ	රි	1	1		p(	7			C	.77	<del></del>	20	
Differanc number and th		Increase		1		1	1				1					1	2	H				1		ಣ	
		Reasons for not tracing				1							1			1						1		-	
		Not traced		1									1		1				1					1	
rned		Observed		481	555	141	209	307	1			570	219	171	542	412	298	296	174	175	1	181	148	5,449	
rims retu		sizongsid			1									1	1		1					1	1		
Number of Pilgrims returned	Sick	Result of bacter. noitanimaxo			Neg.	0		1				Neg.				Neg				Neg		Neg.	Neg.		
Numbe	Found	Suspected diseases		1	Fever	1			1			Fever	1	-		Fever		1		Fever		Fever	Fever		
		Number		1			1					67	1	1				1		_			1	Şo	
		In good heal	\	481	555	141	209	307	45	282	243	570	219	171	545	412	2.98	296	174	175		181	148	5,449	
rims is year	Munder of pilgrims  1 Applied to the state of the state o			481	556	141	209	307	45	282	243	573	228	171	545	413	297	296	174	176		183	149		
		ana ay anaka sana anaka sa mada ay anaka ay anaka ay anaka ay anaka ay anaka ay anaka ay anaka ay anaka ay ana								• •		5 4					•				The state of the s	0 0			
		GP <sup>*</sup>			•	•		•	0	•		•											•	:	
	Districts				_		•	ייי ס'היי	0	•	•	Ahmar				Q t.L.	CALLES CO.	0 0 0		• •		0 0 1	e c	Toral	
				Aphassia				Rod el Farac	Sharahia	Roulae I		Darb el Al	Khalifa	Mousky	Gamalia	Rob of Sharing	Saveda T		Helionolis	Old Cairo		Zeitoun	Helwan	TC	

1—53 Foreign pilgrims observed and found in good health.
2— 40 pilgrims from other districts observed and found in good health.
3—229 Officials and employees of El Tor Mission observed and found in good health. REMARKS

# SANITARY CONTROL OF PUBLIC WOMEN

The total number of Registered Prostitutes for the year 1943 was 771. Of these, 140 were struck off the register during the year.

The total number of examinations held was 32,330.

91 prostitutes were found suffering from venereal diseases.

The number of arrested women was 4319, compared with 2624 in the year 1942. The incidence of disease amongst them was as follows:

Acute Genorrhoea	6
Chronic ,,	408
Primary Spyhilis	32
Secondary ,,	315
Soft chancre	68
Scabies	2
Venereal warts	1
Total	832

Wassermann Examination of the blood.

Prostitutes: 79 specimens were found positive from 642:

Arrested women: 259 specimens found positive from 984.

### Police Health Office

The strength of Cairo Police in 1943 was 10,598 men of all ranks.

The following is a short description of the work carried out by this office during the year.

#### Medical Work

Policemen examined for sick-leaves	702
Other police personnel examined for sick leaves	877
Medico-legal reports	33482
Persons stung by scorpions and received first aid injections	795
Motor car drivers and cabmen examined for practising pro-	
fessions	4740

#### Sanitary Work

Inspection of police units	12
Number of men vaccinated against small-pox	5931
Number of men vaccinated against typhoid (two injections)	1193

It was observed that the most prevalent diseases among non commissioned officers and policemen were: rheumatism, bronchitis, enteritis, intestinal colic, and piles. The number of cases of these diseases were 517, 476, 472, 448, and 413 respectively.

The diseases most prevalent among officers and civilians were: bronchitis, rheumatism, tonsilitis, gastritis and enteritis. The number of cases of these diseases were: 131,65,64,45 and 44 respectively.

31 members of the police force were sent to the fever hospital suffering from typhoid and para-typhoid.

1825 persons were put under observation for infectious diseases during the year.

# Unhealthy, Inconvenient and Dangerous Establishments

Under law No. 13 of August 28, 1904, and arrêté of the Ministry of Interior of August 29 of the same year, the following establishments were licensed during the year 1943 viz:

	lst Class	2nd Class	3rd Class
Saha	1 <b>45</b>	671	369
Zabt	128	301	<b>5</b> 6
Тотац	273	972	425
GRAND TOTAL		1670	

- Of 17,748 establishments inspected during the year 1943, the sanitary conditions in 12844 were satisfactory and in the remaining 4,904 were lacking.
  - 17 Ministrial Arrêtés were issued during the year.

Under Law No. 1 of 1904 substituted by Law No. 38 of 1941, 84 public establishments (theatres, Cinemas, etc) were inspected during the year 1943.

### General Sanitation.

(1) The activities of the Sanitation Section during the year 1943 can be summarised as follows.

#### 1. Water.

Samples of water were regularly taken from the different main water supplies of the City, Gıza and Helwan, in order to ensure their purity.

Samples of water were also taken from other parts of the City and swimming baths

# (2) Free Water Taps.

3 new free water taps were installed in Cairo.

# (3) Military Orders Issued under Martial Law.

- (1) Military order No. 3 (1943) regarding protection of Cairo water intakes. It forbids the dumping of refuse, or sewage matter on the bank of the Nile between the Cairo water intake at Rod El Farag and Embaba Bridge.
- (2) Military order No. 6 (1943) forbids the dumping of sewage matter on a site of land in Geziret Badran rented by Hussein Said.
- (3) Military order No. 386 (1943) regarding the cleanliness of lodgings.
- (4) Military orders Nos. 1 and 9. (1943): forbid the building of ovens or furnaces for stewing beans on 2 sites of land at Rod El Farag the property of heirs of Hassan Eff. Fahmy and the wakf of Said Pasha.
- (5) M.O. dated August 12, 1943 providing for the removal of hutments situated on El Malik El Moez street, Mataria.
- (6) Military order providing for the disconnection of water mains from certain houses.

### (4) Quack Doctors.

The quack doctors squad continued its activities against quack doctors and persons trading in drugs without permits.

# Complaints.

Some 2188 complaints against deficient sanitary installations in dwellings and dumping of rubbish on public roads were received during 1943 and dealt with.

3443 permits were issued during the year for the evacuation of private cesspits.

### NUMBER OF MILK SAMPLES TAKEN DURING 1943 AND THE RATE OF ADULTERATION

			Adültératé	d Samples	٠		Total	%T 3 12	Total	
Number of Samples	Skimi	ming	Addition	of water	Both skims		number of adult. samples	Number of genuine samples	Percentage of adulteration	
	No. of Samples	Rate of adult.	No. of Samples	Rate of adult.	No. of Samples	Rate of adult.				
22,890	1,315	5.7 %	654	2.9 %	370	1.6 %	2,339	20,551	10.2 %	

### LIST OF CONTRAVENTIONS MADE DURING THE YEAR 1943 IN APPLICATION OF THE FOLLOWING ACTS:

No. of Proces-Verbaux drawn up under law No. 48 of 1941		No. of Proces -Verbaux drawn up under Arrêté of the Maistry of Interior dated 13.1.15 re Itinerant Vendors			
2,888	1,663	566	555		

TABLE No. 126.—GIVING NUMBER, QUANTITY AND KIND OF FOODSTUFFS DESTROYED BY CONSENT OF OWNERS, AND NUMBER OF SPECIMENS TAKEN AND THE RESULTS OF THEIR ANALYSIS

	Nemarks					•.	Quantities of destroyed oil included with masli.
lo egat noitieou	Percen decom	1 1	]		54.5%		%G.8
to ega	Percent	1 1			1 1		%8
	No result	1 1					1
a.	Decom-	[ ]			67		
Samples taken	Adulte- rated	1 1			2		09
vă	Genuine		111	G	,		614
	No. of Samples	[ ]	1 1 1	ç	141		669
	Oke	11,920 4,692	1,902 101 8,099		3,214 		
yed	Litre	1 1					
Foodstuffs destroyed	Tin	1.1	1 1		439 4,966 69 3,504 3,804		!
Foods	Bottle		1 1 1				1
	No.	53,485	520 1,964 2,2 <b>5</b> 3				1
	Artioles of Food	A.—Fresh Foods: Fruits and vegetables	try ed or Prepared Foods	C.—Preserved Foods:	Milk and its products  Vegetables and fruits  Meats (preserved or dried)  Salted fish and sardine Other articles of foods (e.g. pickles)	D.—Oils: Olive oil Sesame oil	d oil fit for food

The destroyed masting and oils are combined in this table, but the samples are taken only from the masli.  The destroyed cocoa and tea are combined together in this table, but the samples are taken only from the taken only from the	Chemical analysis Bacteriological exam.
3.4	24.9   16   18.5   -   -   -
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9.8 14.8 8.8 13.6
9	504
2,339 130 130 130 130 152 30	
20,551 1,295 1,450 1,450 1,540 1,546	485 1,516 
60 39 10 10 10 10 10 10 10 10 10 10 10 10 10	485 2,020 589 81 27 422 338 —————————————————————————————————
130 5,394 915 1000 1000 829 	38 1,072 - 911 - 4
1   1   4   1   1   1   1   1   1   1	8,873
1.6	1
	16,606
1,082 7,571 	1,159
E.—Various Foods:  Flour Flour Flour preparations (e.g. bread) Confectionary (miscellaneous) and jam Sugar Milk and cream Sour milk Butter Molasses and Crushed sesame Cheese, old cheese and olive  Masli (natural, artificial) and oils Eggs Halawa Tea Coffee Cocoa, coffee and tea Vinegar	Mineral waters, sugar-cane juice and syrup  Alcoholic liquors and fermented sugar oane juice  Glaces  Ice  Dried food stuffs, etc.  Oondiments  Sahlab  Drugs and cigarette ends  Used bottle capsule  Utensils unfit for use.  Vanilin and Baking powder  Preservatives and colouring matters

# Boulac Health Group

#### Chest Diseases Section:

Number of new patients treated during the year 1943 was 9454 of which 782 were T.B. cases. Deaths were 237

Old patients treated during the year amounted to 11,115 persons distributed as follows:

7102 T.B. cases.

3751 under observation.

148 contacts.

114 other chest diseases.

### 11,115

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The work done by this section was as follows:
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2819 Home visits \begin{cases} 2353 \text{ by nurses.} \\ 466 \text{ ,, doctors.} \end{cases}
```

681 Pneumothorax

2453 patients treated at home (15 were positive).

907 contacts  $\begin{cases} 419 \text{ children} \\ 488 \text{ adults} \end{cases}$  15 were positive.

Their condition was as follows:

130 improved 105 got worse.

24 stationary 18 died.

#### Ear, Nose and Throat section

This section was opened in April 1943 where 3525 new patients, and 1000 old patients were treated.

211 operations were made of which 75 were major. All were completely cured.

Midwifery and Children Section.

The following were treated during the year:

9751 old pregnants.

2010 new pregnants.

1283 deliveries.

23366 childern treated as follows:

2796 Enteritis.

1761 Pulmonary diseases.

27 Infectious diseases.

73 Congenital syphilis.

1169 Skin diseases.

2215 Other diseases.

15325 Old cases.

#### Endemic diseases section.

This section was opened on August 15, 1943.

The number of cases treated amounted to 1671 distributed as follows:

- 83 Dysentery (44 cases treated, all were cured).
- 640 Urinary and Intestinal Schistosomiasis (141 cases were completely treated of whom 111 were cured).
- 243 Ancylostoma (143 cases treated).
- 349 Ascaris (257 cases treated).
- 295 Other Parasites (25 treated).
- 4412 Outpatients.
- 3617 Injections against Schistosomiasis.
- 270 Injections against Dysentery.

# Ophthalmic Section.

Number of cases treated in this section during the year was 19602 distributed as follows:

4704 cured.

3943 improved.

714 discontinued treatment.

78815 under treatment of whom 58 were in-patients.

## In-patient section.

This section was opened on August 18, 1943.

254 patients were admitted there in distributed as follows:

130 cured.

84 improved.

17 no improvement.

5 died.

18 still under treatment.

### Venereal and Skin Diseases Section.

(1) Patients suffering from Gonorrhœa:

Under treatment from previous year: 123 patients.

New patients ... 2038.

Of whom ... ... 648 were cured.

236 did not complete their treatment.

455 remaining.

(2) Patients suffering from syphilis:

Under treatment from 1942—— 87 patients.

New patients ... 1741

Of whom ... ... 238 were cured.

1272 improved.

98 did not complete treatment.

220 remaining.

(3) Patients suffering from other skin diseases 23182.

### Gynecology-obstetric Section

5110 cases were examined (2044 new cases and 3066 old cases).

150 cases were examined for W.R. of which 74 were positive.

95 lectures were given.

6922 visits were paid, 85 to sick pregnants.

4 to sick puerperals, 543 to pregnants in the 9th month.

5754 to puerperals and 522 to other cases.

1283 deliveries were conducted, 250 of which by the midwife.

1023 by the assistant nurse and one by the doctor.

Foetal deaths. 14: one case in the first 3 months. one case in the 2nd 3 months.

8 cases after the 6th month.

Neonatal deaths, 4 cases in the first month.

#### Dental Section

This section was opened on May 8, 1943.

Work done was as follows:

3280 new patients distributed as follows:

2287 under treatment.

973 extractions.

20 different operations.

# Surgical Section

This section was opened on May 4, 1943. 8264 cases were examined of which 3687 were new cases and 4577 old.

33 operations were done of which 32 cases were cured and one case improved.

#### Medical Diseases Section

This section was opened on March 4, 1943. 19314 cases were treated of which 10562 were new cases and 8752 old cases.

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